

2004 Industrial Storm Water General Permit - Storm Water Pollution Prevention Plan Requirements

TABLE 1
INDUSTRIAL ACTIVITY SECTORS COVERED BY THE 2004 INDUSTRIAL STORM WATER GENERAL PERMIT.

SIC Code or Activity Code	Activity Represented
Sector A: Timber Products	
2411	Log Storage and Handling (Wet deck storage areas are only authorized if no chemical additives are used in the spray water or applied to the logs).
2421	General Sawmills and Planning Mills.
2426	Hardwood Dimension and Flooring Mills.
2429	Special Product Sawmills, Not Elsewhere Classified.
2431-2439 (except 2434	Millwork, Veneer, Plywood, and Structural Wood.
- see Sector W)	
2441, 2448, 2449	Wood Containers.
2451, 2452	Wood Buildings and Mobile Homes.
2491	Wood Preserving.
2493	Reconstituted Wood Products.
2499	Wood Products, Not Elsewhere Classified.
Sector B: Paper and Allied Products	
2611	Pulp Mills.
2621	Paper Mills.
2631	Paperboard Mills.
2652-2657	Paperboard Containers and Boxes.
2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes.
Sector C: Chemical and Allied Products	
2812-2819	Industrial Inorganic Chemicals.
2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass.
2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; In Vitro and In Vivo Diagnostic Substances; Biological Products, Except Diagnostic Substances.
2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations.
2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products.
2861-2869	Industrial Organic Chemicals.
2873-2879	Agricultural Chemicals.
2891-2899	Miscellaneous Chemical Products.
3952 (limited to list)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors.
Sector D: Asphalt Paving and Roofing Materials and Lubricants	
2951, 2952	Asphalt Paving and Roofing Materials.
2992, 2999	Miscellaneous Products of Petroleum and Coal.
Sector E: Glass Clay, Cement, Concrete, and Gypsum Products	
3211	Flat Glass.
3221, 3229	Glass and Glassware, Pressed or Blown.
3231	Glass Products Made of Purchased Glass.
3241	Hydraulic Cement.
3251-3259	Structural Clay Products.
3261-3269	Pottery and Related Products.
3271-3275 (except 3273)	Concrete, Gypsum and Plaster Products, Except Ready-mixed Concrete Facilities.
3281	Cut Stone and Stone Products
3291-3299	Abrasive, Asbestos, and Miscellaneous Non-metallic Mineral Products.
Sector F: Primary Metals	
3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills.
3321-3325	Iron and Steel Foundries.
3331-3339	Primary Smelting and Refining of Nonferrous Metals.
3341	Secondary Smelting and Refining of Nonferrous Metals.
3351-3357	Rolling, Drawing, and Extruding of Nonferrous Metals.
3363-3369	Nonferrous Foundries (Castings).
3398, 3399	Miscellaneous Primary Metal Products.
Sector G: Metal Mining (Ore Mining and Dressing)	

1011	Iron Ores.
1021	Copper Ores.
1031	Lead and Zinc Ores.
1041, 1044	Gold and Silver Ores.
1061	Ferroalloy Ores, Except Vanadium.
1081	Metal Mining Services.
1094, 1099	Miscellaneous Metal Ores.
Sector H: Coal Mines and Coal Mining Related Facilities	
1221-1241	Coal Mines and Coal Mining-Related Facilities.
Sector I: Oil and Gas Extraction and Refining	
1311	Crude Petroleum and Natural Gas.
1321	Natural Gas Liquids.
1381-1389	Oil and Gas Field Services.
2911	Petroleum Refineries.
Sector K: Hazardous Waste Treatment, Storage, or Disposal Facilities	
HZ	Hazardous Waste Treatment Storage or Disposal.
Sector L: Landfills and Land Application Sites	
LF	Landfills, Land Application Sites, and Open Dumps.
Sector M: Automobile Salvage Yards	
5015	Automobile Salvage Yards.
Sector N: Scrap Recycling Facilities	
5093	Scrap Recycling Facilities.
4499 (limited to list)	Dismantling Ships, Marine Salvaging, and Marine Wrecking - Ships For Scrap
Sector O: Steam Electric Generating Facilities	
SE	Steam Electric Generating Facilities.
Sector P: Land Transportation and Warehousing	
4011, 4013	Railroad Transportation.
4111-4173	Local and Highway Passenger Transportation.
4212-4231	Motor Freight Transportation and Warehousing.
4311	United States Postal Service.
5171	Petroleum Bulk Stations and Terminals.
Sector Q: Water Transportation	
4412-4499 (except 4499 facilities as specified in Sector N)	Water Transportation.
Sector R: Ship and Boat Building or Repairing Yards	
3731, 3732	Ship and Boat Building or Repairing Yards.
Sector S: Air Transportation	
4512-4581	Air Transportation Facilities.
Sector T: Treatment Works	
TW	Treatment Works.
Sector U: Food and Kindred Products	
2011-2015	Meat Products.
2021-2026	Dairy Products.
2032-2038	Canned, Frozen and Preserved Fruits, Vegetables and Food Specialties.
2041-2048	Grain Mill Products.
2051-2053	Bakery Products.
2061-2068	Sugar and Confectionery Products.
2074-2079	Fats and Oils.
2082-2087	Beverages.
2091-2099	Miscellaneous Food Preparations and Kindred Products.
2111-2141	Tobacco Products.
Sector V: Textile Mills, Apparel, and Other Fabric Product Manufacturing, Leather and Leather Products	
2211-2299	Textile Mill Products.
2311-2399	Apparel and Other Finished Products Made From Fabrics and Similar Materials.
3131-3199 (except 3111 - see Sector Z)	Leather and Leather Products, except Leather Tanning and Finishing.
Sector W: Furniture and Fixtures	
2434	Wood Kitchen Cabinets.
2511-2599	Furniture and Fixtures.
Sector X: Printing and Publishing	

2711-2796	Printing, Publishing, and Allied Industries.
Sector Y: Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries.	
3011	Tires and Inner Tubes.
3021	Rubber and Plastics Footwear.
3052, 3053	Gaskets, Packing, and Sealing Devices and Rubber and Plastics Hose and Belting.
3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified.
3081-3089	Miscellaneous Plastics Products.
3931	Musical Instruments.
3942-3949	Dolls, Toys, Games and Sporting and Athletic Goods.
3951-3955 (except 3952 facilities as specified in Sector C).	Pens, Pencils, and Other Artists' Materials.
3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal.
3991-3999	Miscellaneous Manufacturing Industries.
Sector Z: Leather Tanning and Finishing	
3111	Leather Tanning, Currying and Finishing.
Sector AA: Fabricated Metal Products	
3411-3499	Fabricated Metal Products, Except Machinery and Transportation Equipment.
3911-3915	Jewelry, Silverware, and Plated Ware
Sector AB: Transportation Equipment, Industrial or Commercial Machinery	
3511-3599 (except 3571-3579 - see Sector AC)	Industrial and Commercial Machinery (Except Computer and Office Equipment).
3711-3799 (except 3731, 3732 - see Sector R)	Transportation Equipment (Except Ship and Boat Building and Repairing).
Sector AC: Electronic, Electrical, Photographic, and Optical Goods	
3571-3579	Computer and Office Equipment.
3612-3699	Electronic, Electrical Equipment and Components, Except Computer Equipment.
3812-3873	Measuring, Analyzing and Controlling Instrument; Photographic and Optical Goods.
Sector AD: Non-Classified Facilities/Storm Water Discharges Designated By the Board As Requiring Permits	
N/A	Other Storm Water Discharges Designated By the Board As Needing a Permit (see 9 VAC 25-31-120 A 1 e) or Any Facility Discharging Storm Water Associated With Industrial Activity Not Described By Any of Sectors A-AC. Note: Facilities may not elect to be covered under Sector AD. Only the Director may assign a facility to Sector AD.

2004 INDUSTRIAL STORM WATER GENERAL PERMIT (VAR05)

PART III STORM WATER POLLUTION PREVENTION PLANS.

Storm Water Pollution Prevention Plan - General Requirements.

A. Deadlines for plan preparation and compliance.

1. New facilities, facilities previously covered by an expiring individual permit, and existing facilities not currently covered by a VPDES permit. Owners of new facilities, facilities previously covered by an expiring individual permit, and existing facilities not currently covered by a VPDES permit who elect to be covered under this general permit must prepare and implement the SWPPP prior to submitting the registration statement.
2. New owners of existing facilities. Where the owner of an existing facility that is covered by this permit changes, the new owner of the facility must update and implement any revisions to the SWPPP within 60 days of the ownership change.
3. Extensions. Upon a showing of good cause, the director may establish a later date in writing for the preparation and compliance with the SWPPP.

B. Contents of the plan. The contents of the SWPPP shall comply with the requirements listed below and those in the appropriate sectors of Part IV. These requirements are cumulative. If a facility has colocated activities that are covered in more than one sector of Part IV, that facility's pollution prevention plan must comply with the requirements listed in all applicable sectors. The following requirements are applicable to all SWPPPs developed under this general permit. The plan shall include, at a minimum, the following items:

1. Pollution prevention team. The plan shall identify the staff individuals by name or title that comprise the facility's storm water pollution prevention team. The pollution prevention team is responsible for assisting the facility or plant manager in developing, implementing, maintaining, and revising the facility's SWPPP. Responsibilities of each staff individual on the team must be listed.

2. Site description. The SWPPP shall include the following:

a. Activities at the facility. A description of the nature of the industrial activity(ies) at the facility.

b. General location map. A general location map (e.g., USGS quadrangle or other map) with enough detail to identify the location of the facility and the receiving waters within one mile of the facility.

c. Site map. A site Map identifying the following:

(1) Directions of storm water flow (e.g., use arrows to show which ways storm water will flow);

(2) Locations of all existing structural BMPs;

(3) Locations of all surface water bodies;

(4) Locations of potential pollutant sources identified under Part III B 3 and where significant materials are exposed to precipitation;

(5) Locations where major spills or leaks identified under Part III B 4 have occurred;

(6) Locations of the following activities where such activities are exposed to precipitation: fueling stations; vehicle and equipment maintenance and/or cleaning areas; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; and liquid storage tanks;

(7) Locations of storm water outfalls and an approximate outline of the area draining to each outfall;

(8) Location and description of nonstorm water discharges;

(9) Locations of the following activities where such activities are exposed to precipitation: processing and storage areas; access roads, rail cars and tracks; the location of transfer of substance in bulk; and machinery; and

(10) Location and source of runoff from adjacent property containing significant quantities of pollutants of concern to the facility (the permittee may include an evaluation of how the quality of the storm water running onto the facility impacts the facility's storm water discharges).

d. Receiving waters and wetlands. The name of the nearest receiving water(s), including intermittent streams, dry sloughs, arroyos and the areal extent and description of wetland sites that may receive discharges from the facility.

3. Summary of potential pollutant sources. The plan shall identify each separate area at the facility where industrial materials or activities are exposed to storm water. Industrial materials or activities include, but are not limited to: material handling equipment or activities, industrial machinery, raw materials, intermediate products, byproducts, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. For each separate area identified, the description must include:

a. Activities in area. A list of the activities (e.g., material storage, equipment fueling and cleaning, cutting steel beams); and

b. Pollutants. A list of the associated pollutant(s) or pollutant parameter(s) (e.g., crankcase oil, iron, biochemical oxygen demand, pH, etc.) for each activity. The pollutant list must include all significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years before being covered under this permit and the present.

4. Spills and leaks. The SWPPP must clearly identify areas where potential spills and leaks that can contribute pollutants to storm water discharges can occur and their accompanying drainage points. For areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility to be covered under this permit, the plan must include a list of significant spills and leaks of toxic or hazardous pollutants that occurred during the three-year period prior to the date of the submission of a registration statement. The list must be updated if significant spills or leaks occur in exposed areas of the facility during the term of the permit. Significant spills and leaks include releases of oil or hazardous substances in excess of reportable quantities, and may also include releases of oil or hazardous substances that are not in excess of reporting requirements.

5. Sampling data. The plan must include a summary of existing discharge sampling data taken at the facility, and must also include a summary of sampling data collected during the term of this permit.

6. Storm water controls. The SWPPP shall include a description of storm water management controls appropriate for the facility. The description of controls shall address the following minimum components:

a. Description of existing and planned BMPs. The plan shall describe the type and location of existing nonstructural and structural best management practices (BMPs) selected for each of the areas where industrial materials or activities are exposed to storm water. All the areas identified in Part III B 3 (summary of potential pollutant sources) should have a BMP(s) identified for the area's discharges. For areas where BMPs are not currently in place, include a description of appropriate BMPs that will be used to control pollutants in storm water discharges. Selection of BMPs should take into consideration:

(1) The quantity and nature of the pollutants, and their potential to impact the water quality of receiving waters;

(2) Opportunities to combine the dual purposes of water quality protection and local flood control benefits, including physical impacts of high flows on streams (e.g., bank erosion, impairment of aquatic habitat, etc.);

(3) Opportunities to offset the impact of impervious areas of the facility on ground water recharge and base flows in local streams, taking into account the potential for ground water contamination.

b. BMP types to be considered. The permittee must consider the following types of structural, nonstructural and other BMPs for implementation at the facility. The SWPPP shall describe how each BMP is, or will be, implemented. If this requirement was fulfilled with the area-specific BMPs identified under Part III B 6 a, then the previous description is sufficient. However, many of the following BMPs may be more generalized or non-site-specific and therefore not previously considered. If the permittee determines that any of these BMPs are not appropriate for the facility, an explanation of why they are not appropriate shall be included in the plan. The BMP examples listed below are not intended to be an exclusive list of BMPs that may be used. The permittee is encouraged to keep abreast of new BMPs or new applications of existing BMPs to find the most cost effective means of permit compliance for the facility. If BMPs are being used or planned at the facility that are not listed here (e.g., replacing a chemical with a less toxic alternative, adopting a new or innovative BMP, etc.), descriptions of them shall be included in this section of the SWPPP.

(1) Nonstructural BMPs.

(a) Good housekeeping. The permittee must keep all exposed areas of the facility in a clean, orderly manner where such exposed areas could contribute pollutants to storm water discharges. Common problem areas include around trash containers, storage areas and loading docks. Measures must also include a schedule for regular pickup and disposal of garbage and waste materials; routine inspections for leaks and conditions of drums, tanks and containers.

(b) Minimizing exposure. Where practicable, industrial materials and activities should be protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, or runoff. Note: Eliminating exposure at all industrial areas may make the facility eligible for the "Conditional Exclusion for No Exposure" provision of 9 VAC 25-31-120 F, thereby eliminating the need to have a permit.

(c) Preventive maintenance. The permittee must have a preventive maintenance program that includes timely inspection and maintenance of storm water management devices (e.g., cleaning oil/water separators, catch basins), as well as inspection, testing, maintenance and repairing of facility equipment and systems to avoid breakdowns or failures that could result in discharges of pollutants to surface waters.

(d) Spill prevention and response procedures. The plan must describe the procedures that will be followed for cleaning up spills or leaks. The procedures and necessary spill response equipment must be made available to those employees who may cause or detect a spill or leak. Where appropriate, the plan must include an explanation of existing or planned material handling procedures, storage requirements, secondary containment, and equipment (e.g., diversion valves), that are intended to minimize spills or leaks at the facility. Measures for cleaning up hazardous material spills or leaks must be consistent with applicable RCRA regulations at 40 CFR Part 264 and 40 CFR Part 265.

(e) Routine facility inspections. Facility personnel who are familiar with the industrial activity, the BMPs and the storm water pollution prevention plan shall be identified to inspect all areas of the facility where industrial materials or activities are exposed to storm water. These inspections are in addition to, or as part of, the comprehensive site evaluation required under Part III E, and must include an evaluation of the existing storm water BMPs. The inspection frequency shall be specified in the plan based upon a consideration of the level of industrial activity at the facility, but shall be a minimum of quarterly unless more frequent intervals are specified elsewhere in the permit. Any deficiencies in the implementation of the SWPPP that are found must be corrected as soon as practicable, but not later than within 14 days of the inspection, unless permission for a later date is granted in writing by the director. The results of the inspections must be documented in the SWPPP, along with any corrective actions that were taken in response to any deficiencies or opportunities for improvement that were identified.

(f) Employee training. The SWPPP must describe the storm water employee training program for the facility. The description should include the topics to be covered, such as spill response, good housekeeping, and material management practices, and must identify periodic dates for such training (e.g., every six months during the months of July and January). Employee training must be provided for all employees who work in areas where industrial materials or activities are exposed to storm water, and for employees who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance people). The training should inform employees of the components and goals of the SWPPP.

(2) Structural BMPs.

(a) Sediment and erosion control. The plan shall identify areas at the facility that, due to topography, land disturbance (e.g., construction), or other factors, have a potential for significant soil erosion. The plan must identify structural, vegetative, and/or stabilization BMPs that will be implemented to limit erosion.

(b) Management of runoff. The plan shall describe the traditional storm water management practices (permanent structural BMPs other than those that control the generation or source(s) of pollutants) that currently exist or that are planned for the facility. These types of BMPs are typically used to divert, infiltrate, reuse, or otherwise reduce pollutants in storm water discharges from the site. The plan shall provide that all measures that the permittee determines to be

reasonable and appropriate, or are required by a state or local authority shall be implemented and maintained. Factors for the permittee to consider when selecting appropriate BMPs should include:

- (i) The industrial materials and activities that are exposed to storm water, and the associated pollutant potential of those materials and activities; and
- (ii) The beneficial and potential detrimental effects on surface water quality, ground water quality, receiving water base flow (dry weather stream flow), and physical integrity of receiving waters.

Structural measures should be placed on upland soils, avoiding wetlands and floodplains, if possible. Structural BMPs may require a separate permit under § 404 of the CWA before installation begins.

(c) Example BMPs. BMPs that could be used include but are not limited to: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff on-site; and sequential systems (which combine several practices).

(d) Other Controls. Off-site vehicle tracking of raw, final, or waste materials or sediments, and the generation of dust must be minimized. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas must be minimized. Velocity dissipation devices (or equivalent measures) must be placed at discharge locations and along the length of any outfall channel if they are necessary to provide a nonerosive flow velocity from the structure to a water course.

C. Maintenance. All BMPs identified in the SWPPP must be maintained in effective operating condition. If site inspections required by Part III E identify BMPs that are not operating effectively, maintenance must be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. In the case of nonstructural BMPs, the effectiveness of the BMP must be maintained by appropriate means (e.g., spill response supplies available and personnel trained, etc.).

D. Nonstorm water discharges.

1. Certification of nonstorm water discharges.

a. The SWPPP must include a certification that all discharges (i.e., outfalls) have been tested or evaluated for the presence of nonstorm water. The certification must be signed in accordance with Part II K of this permit, and include:

- (1) The date of any testing and/or evaluation;
- (2) Identification of potential significant sources of nonstorm water at the site;
- (3) A description of the results of any test and/or evaluation for the presence of nonstorm water discharges;
- (4) A description of the evaluation criteria or testing method used; and
- (5) A list of the outfalls or on-site drainage points that were directly observed during the test.

b. A new certification does not need to be signed if one was completed for the 1999 Industrial Storm Water General Permit and the permittee has no reason to believe conditions at the facility have changed.

c. If the permittee is unable to provide the certification required (testing for nonstorm water discharges), the director must be notified 180 days after submitting a registration statement to be covered by this permit. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification must describe:

- (1) The reason(s) why certification was not possible;
- (2) The procedure of any test attempted;
- (3) The results of such test or other relevant observations; and
- (4) Potential sources of nonstorm water discharges to the storm sewer.

d. A copy of the notification must be included in the SWPPP at the facility. Nonstorm water discharges to state waters that are not authorized by a VPDES permit are unlawful, and must be terminated.

2. Allowable nonstorm water discharges.

a. The sources of nonstorm water listed in Part I B 1 (allowable nonstorm water discharges) are allowable discharges under this permit provided the permittee includes the following information in the SWPPP:

- (1) Identification of each allowable nonstorm water source, except for flows from fire fighting activities;
- (2) The location where the nonstorm water is likely to be discharged; and
- (3) Descriptions of any BMPs that are being used for each source.

b. If mist blown from cooling towers is included as one of the allowable nonstorm water discharges from the facility, the permittee must specifically evaluate the potential for the discharges to be contaminated by chemicals used in the cooling

tower and must select and implement BMPs to control such discharges so that the levels of cooling tower chemicals in the discharges would not cause or contribute to a violation of an applicable water quality standard.

E. Comprehensive site compliance evaluation. The permittee shall conduct facility inspections (site compliance evaluations) at least once a year. The inspections must be done by qualified personnel who may be either facility employees or outside constituents hired by the facility. The inspectors must be familiar with the industrial activity, the BMPs and the SWPPP, and must possess the skills to assess conditions at the facility that could impact storm water quality, and to assess the effectiveness of the BMPs that have been chosen to control the quality of the storm water discharges. If more frequent inspections are conducted, the SWPPP must specify the frequency of inspections.

1. Scope of the compliance evaluation. Inspections must include all areas where industrial materials or activities are exposed to storm water, as identified in Part III B 3, and areas where spills and leaks have occurred within the past three years. Inspectors should look for:

- a. Industrial materials, residue or trash on the ground that could contaminate or be washed away in storm water;
- b. Leaks or spills from industrial equipment, drums, barrels, tanks or similar containers;
- c. Off-site tracking of industrial materials or sediment where vehicles enter or exit the site;
- d. Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and
- e. Evidence of, or the potential for, pollutants entering the drainage system.

Results of both visual and any analytical monitoring done during the year must be taken into consideration during the evaluation. Storm water BMPs identified in the SWPPP must be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they must be inspected to see whether BMPs are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations must be inspected if possible.

2. Based on the results of the inspection, the SWPPP shall be modified as necessary (e.g., show additional controls on the map required by Part III B 2 c; revise the description of controls required by Part III B 6 to include additional or modified BMPs designed to correct problems identified). Revisions to the SWPPP shall be completed within two weeks following the inspection, unless permission for a later date is granted in writing by the director. If existing BMPs need to be modified or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event, if practicable, but not more than 12 weeks after completion of the comprehensive site evaluation, unless permission for a later date is granted in writing by the director;

3. Compliance evaluation report. A report summarizing the scope of the inspection, name(s) of personnel making the inspection, the date(s) of the inspection, and major observations relating to the implementation of the SWPPP, and actions taken in accordance with Part III E 2 shall be made and retained as part of the SWPPP for at least three years from the date of the inspection. Major observations should include: the location(s) of discharges of pollutants from the site; location(s) of BMPs that need to be maintained; location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location; and location(s) where additional BMPs are needed that did not exist at the time of inspection. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the SWPPP and this permit. The report shall be signed in accordance with Part II K; and

4. Where compliance evaluation schedules overlap with routine inspections required under Part III B 6 b(1)(e), the annual compliance evaluation may be used as one of the routine inspections.

F. Signature and plan review.

1. Signature/location. The plan shall be signed in accordance with the General Permit Part II K (Signatory Requirements), and retained on-site at the facility covered by this permit in accordance with General Permit Part II B 2 (Records). For inactive facilities, the plan may be kept at the nearest office of the permittee.

2. Availability. The permittee shall make the SWPPP, annual site compliance inspection report, and other information available to the department upon request.

3. Required modifications. The director may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this permit. The notification shall identify those provisions of the permit that are not being met, as well as the required modifications. The permittee shall make the required changes to the SWPPP within 60 days of receipt of such notification, unless permission for a later date is granted in writing by the director, and shall submit a written certification to the director that the requested changes have been made.

G. Maintaining an updated SWPPP. The permittee shall amend the SWPPP whenever:

1. There is a change in design, construction, operation, or maintenance at the facility that has a significant effect on the discharge, or the potential for the discharge, of pollutants from the facility;

2. During inspections, monitoring, or investigations by facility personnel or by local, state, or federal officials it is determined that the SWPPP is ineffective in eliminating or significantly minimizing pollutants from sources identified under Part III B 3, or is otherwise not achieving the general objectives of controlling pollutants in discharges from the facility.

H. Special pollution prevention plan requirements.

1. Additional requirements for storm water discharges associated with industrial activity that discharge into or through municipal separate storm sewer systems.

a. In addition to the applicable requirements of this permit, facilities covered by this permit must comply with applicable requirements in municipal storm water management programs developed under VPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the permittee has been notified of such conditions.

b. Permittees that discharge storm water associated with industrial activity through a municipal separate storm sewer system, or a municipal system designated by the director shall make plans available to the municipal operator of the system upon request.

2. Additional requirements for storm water discharges associated with industrial activity from facilities subject to EPCRA § 313 reporting requirements.

Any potential pollutant sources for which the facility has reporting requirements under EPCRA 313 must be identified in the SWPPP in Part III B 3 (Summary of Potential Pollutant Sources). Note: this additional requirement is only applicable if the facility is subject to reporting requirements under EPCRA 313.

PART IV.

SECTOR SPECIFIC STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS.

The permittee must only comply with the additional requirements of Part IV that apply to the sector(s) of industrial activity located at the facility. These sector specific requirements are in addition to the "basic" requirements specified in Part III.

Sector A - Timber products.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities generally classified under Standard Industrial Classification (SIC) Major Group 24 that are engaged in the following activities: cutting timber and pulpwood (those that have log storage or handling areas), mills, including merchant, lath, shingle, cooperage stock, planing, plywood and veneer, and producing lumber and wood materials; wood preserving, manufacturing wood buildings or mobile homes; and manufacturing finished articles made entirely of wood or related materials, except for wood kitchen cabinet manufacturers (SIC Code 2434), which are addressed under Sector W.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: processing areas; treatment chemical storage areas; treated wood and residue storage areas; wet decking areas; dry decking areas; untreated wood and residue storage areas; and treatment equipment storage areas.

b. Summary of potential pollutant sources. Where information is available, facilities that have used chlorophenolic, creosote, or chromium-copper-arsenic formulations for wood surface protection or wood preserving activities on-site in the past should identify in the inventory the following: areas where contaminated soils, treatment equipment, and stored materials still remain, and the management practices employed to minimize the contact of these materials with storm water runoff.

2. Storm water controls. The description of storm water management controls shall address the following areas of the site: log, lumber and other wood product storage areas; residue storage areas; loading and unloading areas; material handling areas; chemical storage areas; and equipment/vehicle maintenance, storage and repair areas. Facilities that surface protect and/or preserve wood products should address specific BMPs for wood surface protection and preserving activities. The SWPPP should address the following minimum components:

a. Good housekeeping. Good housekeeping measures in storage areas, loading and unloading areas, and material handling areas should be designed to:

- (1) Limit the discharge of wood debris;
- (2) Minimize the leachate generated from decaying wood materials; and
- (3) Minimize the generation of dust.

b. Routine facility inspections. Inspections at processing areas, transport areas, and treated wood storage areas of facilities performing wood surface protection and preservation activities should be performed monthly to assess the usefulness of practices in minimizing the deposit of treatment chemicals on unprotected soils and in areas that will come in contact with storm water discharges.

Sector B - Paper and allied products manufacturing.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities generally classified under SIC Major Group 26 that are engaged in the following activities: the manufacture of pulps from wood and other cellulose fibers and from rags; the manufacture of paper and paperboard into converted products, such as paper coated off the paper machine, paper bags, paper boxes and envelopes; and the manufacture of bags of plastic film and sheet.

B. Storm water pollution prevention plan requirements. There are no SWPPP requirements for this sector in addition to those listed in Part III.

Sector C - Chemical and allied products manufacturing.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities engaged in manufacturing the following products and generally described by the SIC code shown:

1. Basic industrial inorganic chemicals (including SIC Code 281);
2. Plastic materials and synthetic resins, synthetic rubbers, and cellulosic and other humanmade fibers, except glass (including SIC Code 282);
3. Medicinal chemicals and pharmaceutical products, including the grading, grinding and milling of botanicals (including SIC Code 283).
4. Soap and other detergents, including facilities producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations (including SIC Code 284);
5. Paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers, and sealers; paint and varnish removers; paint brush cleaners; and allied paint products (including SIC Code 285);
6. Industrial organic chemicals (including SIC Code 286);
7. Nitrogenous and phosphatic basic fertilizers, mixed fertilizer, pesticides, and other agricultural chemicals (including SIC Code 287);
8. Industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials; explosives; printing ink, including gravure ink, screen process and lithographic inks; miscellaneous chemical preparations, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, and writing and stamp pad ink; industrial compounds, such as boiler and heat insulating compounds; and chemical supplies for foundries (including SIC Code 289); and
9. Ink and paints, including china painting enamels, India ink, drawing ink, platinum paints for burnt wood or leather work, paints for china painting, artists' paints and artists' water colors (SIC Code 3952, limited to those listed; for others in SIC Code 3952 not listed above, see Sector Y).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following items.

1. Site description.
 - a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: processing and storage areas; access roads, rail cars and tracks; areas where substances are transferred in bulk; and operating machinery.
 - b. Summary of potential pollutant sources. A description of the following sources and activities that have potential pollutants associated with them: loading, unloading and transfer of chemicals; outdoor storage of salt, pallets, coal, drums, containers, fuels, fueling stations; vehicle and equipment maintenance/cleaning areas; areas where the treatment, storage or disposal (on-site or off-site) of waste/wastewater occur; storage tanks and other containers; processing and storage areas; access roads, rail cars and tracks; areas where the transfer of substances in bulk occurs; and areas where machinery operates.
2. Storm water controls. Nonstructural BMPs. Good housekeeping. At a minimum, the SWPPP shall:
 - a. Include a schedule for regular pickup and disposal of garbage and waste materials, or a description of other appropriate measures used to reduce the potential for the discharge of storm water that has come into contact with garbage or waste materials;
 - b. Include routine inspections of the condition of drums, tanks and containers for potential leaks.

Sector D - Asphalt paving and roofing materials and lubricant manufacturers.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities engaged in the following activities: manufacturing asphalt paving and roofing

materials, including those facilities commonly identified by SIC Codes 2951 and 2952; portable asphalt plants (also commonly identified by SIC Code 2951); and manufacturing miscellaneous products of petroleum and coal, including those facilities classified as SIC Code 2992 and 2999.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following item: Routine facility inspections. Material storage and handling areas, liquid storage tanks, hoppers or silos, vehicle and equipment maintenance, cleaning, and fueling areas, material handling vehicles, equipment and processing areas shall be inspected at least once per month, as part of the maintenance program.

Sector E - Glass, clay, cement, concrete, and gypsum products.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities generally classified under SIC Major Group 32 that are engaged in either manufacturing the following products or performing the following activities: flat, pressed, or blown glass or glass containers; hydraulic cement; clay products including tile and brick; pottery and porcelain electrical supplies; concrete products; gypsum products; nonclay refractories; minerals and earths, ground or otherwise treated; lime manufacturing; cut stone and stone products; asbestos products; and mineral wool and mineral wool insulation products. Ready-mixed concrete facilities (SIC Code 3273) are not covered by this permit.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following items:

1. Site description and site map. The site map shall identify the locations of the following, if applicable: bag house or other dust control device; recycle/sedimentation pond, clarifier or other device used for the treatment of process wastewater and the areas that drain to the treatment device.

2. Storm water controls.

- a. Good housekeeping.

- (1) Facilities shall prevent or minimize the discharge of: spilled cement; aggregate (including sand or gravel); kiln dust; fly ash; settled dust; and other significant materials in storm water from paved portions of the site that are exposed to storm water. Measures used to minimize the presence of these materials may include regular sweeping, or other equivalent measures. The plan shall indicate the frequency of sweeping or equivalent measures. The frequency shall be determined based upon consideration of the amount of industrial activity occurring in the area and frequency of precipitation, but shall not be less than once per week if cement, aggregate, kiln dust; fly ash, or settled dust are being handled or processed.

- (2) Facilities shall prevent the exposure of fine granular solids (such as cement , kiln dust, etc.) to storm water. Where practicable, these materials shall be stored in enclosed silos or hoppers , buildings, or under other covering.

- b. Routine facility inspections. The inspection shall take place while the facility is in operation and shall include all of the following areas that are exposed to storm water: material handling areas, aboveground storage tanks, hoppers or silos, dust collection/containment systems, truck wash down/equipment cleaning areas.

- c. Certification of nonstorm water discharges. Facilities engaged in production of ready-mix concrete, concrete block, brick or similar products shall include in the certification a description of measures that ensure that process wastewater that results from washing of trucks, mixers, transport buckets, forms or other equipment are discharged in accordance with a separate VPDES permit or are recycled.

Sector F - Primary metals.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from the following types of facilities in the primary metal industry , and generally described by the SIC code shown:

1. Steel works, blast furnaces, and rolling and finishing mills, including: steel wire drawing and steel nails and spikes; cold-rolled steel sheet, strip, and bars; and steel pipes and tubes (SIC Code 331).

2. Iron and steel foundries, including: gray and ductile iron, malleable iron, steel investment, and steel foundries not elsewhere classified (SIC Code 332).

3. Primary smelting and refining of nonferrous metals, including: primary smelting and refining of copper, and primary production of aluminum (SIC Code 333).

4. Secondary smelting and refining of nonferrous metals (SIC Code 334).

5. Rolling, drawing, and extruding of nonferrous metals, including: rolling, drawing, and extruding of copper; rolling, drawing and extruding of nonferrous metals except copper and aluminum; and drawing and insulating of nonferrous wire (SIC Code 335).

6. Nonferrous foundries (castings), including: aluminum die-castings, nonferrous die-castings, except aluminum, aluminum foundries, copper foundries, and nonferrous foundries, except copper and aluminum (SIC Code 336).

7. Miscellaneous primary metal products, not elsewhere classified, including: metal heat treating, and primary metal products, not elsewhere classified (SIC Code 339).

Activities covered include, but are not limited to, storm water discharges associated with coking operations, sintering plants, blast furnaces, smelting operations, rolling mills, casting operations, heat treating, extruding, drawing, or forging of all types of ferrous and nonferrous metals, scrap, and ore.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following activities may be exposed to precipitation/surface runoff: storage or disposal of wastes such as spent solvents/baths, sand, slag/dross; liquid storage tanks/drums; processing areas including pollution control equipment (e.g., baghouses); and storage areas of raw materials such as coal, coke, scrap, sand, fluxes, refractories, or metal in any form. In addition, indicate sources where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions, losses from coal/coke handling operations, etc., and that could result in a discharge of pollutants to surface waters.

b. Inventory of exposed materials. The inventory of materials handled at the site that potentially may be exposed to precipitation/runoff should include areas where deposition of particulate matter from process air emissions or losses during material handling activities are possible.

2. Storm water controls.

a. Good housekeeping. The SWPPP should consider implementation of the following measures, or equivalent measures, where applicable.

(1) Establishment of a cleaning/maintenance program for all impervious areas of the facility where particulate matter, dust, or debris may accumulate, especially areas where material loading/unloading, storage, handling, and processing occur.

(2) The paving of areas where vehicle traffic or material storage occur, but where vegetative or other stabilization methods are not practicable. Sweeping programs shall be instituted in these areas as well.

(3) For unstabilized areas of the facility where sweeping is not practical, the permittee should consider using storm water management devices such as sediment traps, vegetative buffer strips, filter fabric fence, sediment filtering boom, gravel outlet protection, or other equivalent measures, that effectively trap or remove sediment.

b. Routine facility inspections. Inspections shall be conducted at least quarterly, and shall address all potential sources of pollutants, including (if applicable):

(1) Air pollution control equipment (e.g., baghouses, electrostatic precipitators, scrubbers, and cyclones) should be inspected for any signs of degradation (e.g., leaks, corrosion, or improper operation) that could limit their efficiency and lead to excessive emissions. The permittee should consider monitoring air flow at inlets/outlets, or equivalent measures, to check for leaks (e.g., particulate deposition) or blockage in ducts;

(2) All process or material handling equipment (e.g., conveyors, cranes, and vehicles) should be inspected for leaks, drips, or the potential loss of materials; and

(3) Material storage areas (e.g., piles, bins or hoppers for storing coke, coal, scrap, or slag, as well as chemicals stored in tanks/drums) should be examined for signs of material losses due to wind or storm water runoff.

Sector G - Metal mining (ore mining and dressing).

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from active, temporarily inactive and inactive metal mining and ore dressing facilities including mines abandoned on federal lands, as classified under SIC Major Group 10. Coverage is required for facilities that discharge storm water that has come into contact with, or is contaminated by, any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the operation. SIC Major Group 10 includes establishments primarily engaged in mining of ores, developing mines, or exploring for metallic minerals (ores) and also includes ore dressing and beneficiating operations, whether performed at colocated, dedicated mills or at separate mills, such as custom mills. For the purposes of this section, the term "metal mining" includes any of the separate activities listed above. Covered discharges include:

1. All storm water discharges from inactive metal mining facilities; and

2. Storm water discharges from the following areas of active and temporarily inactive metal mining facilities : waste rock/overburden piles if composed entirely of storm water and not combining with mine drainage; topsoil piles; off-site haul/access roads ; on-site haul/access roads constructed of waste rock/overburden if composed entirely of storm water and not combining with mine drainage; on-site haul/access roads not constructed of waste rock/overburden/spent ore except if mine drainage is used for dust control; runoff from tailings dams/dikes when not constructed of waste rock/tailings and no process fluids are present; runoff from tailings dams/dikes when constructed of waste rock/tailings and no process fluids are present if composed entirely of storm water and not combining with mine drainage; concentration building if no contact with

material piles; mill site if no contact with material piles; office/administrative building and housing if mixed with storm water from industrial area; chemical storage area; docking facility if no excessive contact with waste product that would otherwise constitute mine drainage; explosive storage; fuel storage; vehicle/equipment maintenance area/building; parking areas (if necessary); power plant; truck wash areas if no excessive contact with waste product that would otherwise constitute mine drainage; unreclaimed, disturbed areas outside of active mining area; reclaimed areas released from reclamation bonds prior to December 17, 1990; and partially/inadequately reclaimed areas or areas not released from reclamation bonds.

B. Special definitions. The following definitions are only for this section of the general permit:

"Active metal mining facility" means a place where work or other related activity to the extraction, removal, or recovery of metal ore is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun.

"Active phase" means activities including each step from extraction through production of a salable product.

"Exploration and construction phase" entails exploration and land disturbance activities to determine the financial viability of a site. Construction includes the building of site access roads and removal of overburden and waste rock to expose mineable minerals.

"Inactive metal mining facility" means a site or portion of a site where metal mining and/or milling occurred in the past but is not an active facility as defined in this permit, and where the inactive portion is not covered by an active mining permit issued by the applicable (federal or state) governmental agency.

"Mining operation" typically consists of three phases, any one of which individually qualifies as a "mining activity." The phases are the exploration and construction phase, the active phase, and the reclamation phase.

"Reclamation phase" means activities intended to return the land to its premining use.

"Temporarily inactive metal mining facility" means a site or portion of a site where metal mining and/or milling occurred in the past but currently are not being actively undertaken, and the facility is covered by an active mining permit issued by the applicable (federal or state) government agency.

C. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following items.

1. SWPPP requirements for active and temporarily inactive metal mining facilities.

a. Site description.

(1) Activities at the facility. A description of the mining and associated activities taking place at the site that can potentially affect storm water discharges covered by this permit. The description shall include the total acreage within the mine site; an estimate of the number of acres of disturbed land; an estimate of the total amount of land proposed to be disturbed throughout the life of the mine and a general description of the location of the site relative to major transportation routes and communities.

(2) Site map. The site map shall identify the locations of the following, as appropriate: mining/milling site boundaries; access and haul roads; an outline of the drainage areas of each storm water outfall within the facility, and an indication of the types of discharges from the drainage areas; equipment storage, fueling and maintenance areas; materials handling areas; outdoor manufacturing, storage or material disposal areas; storage areas for chemicals and explosives; areas used for storage of overburden, materials, soils or wastes; location of mine drainage (where water leaves mine) or any other process water; tailings piles/ponds, both proposed and existing; heap leach pads; points of discharge from the property for mine drainage/process water; surface waters; and boundary of tributary areas that are subject to effluent limitations guidelines.

b. Summary of potential pollutant sources. For each area of the mine/mill site where storm water discharges associated with industrial activities occur, the types of pollutants likely to be present in significant amounts must be identified (e.g., heavy metals, sediment). The following factors must be considered: the mineralogy of the ore and waste rock (e.g., acid forming); toxicity and quantity of chemicals used, produced or discharged; the likelihood, if any, of contact with storm water; vegetation of site; history of significant leaks/spills of toxic or hazardous pollutants. A summary of any existing ore or waste rock/overburden characterization data and test results for potential generation of acid rock shall also be included. If the ore or waste rock/overburden characterization data are updated due to a change in the ore type being mined, the SWPPP shall be updated with the new data.

c. Storm water controls.

(1) Nonstructural BMPs.

(a) Routine facility inspections. Active mining sites must be inspected at least monthly. Temporarily inactive sites must be inspected at least quarterly unless adverse weather conditions make the site inaccessible.

(b) Employee training. Employee training shall be conducted at least annually at active mining and temporarily inactive sites.

(2) Structural BMPs. Each of the following BMPs shall be considered in the SWPPP. The potential pollutants identified in subpart E 1 b above shall determine the priority and appropriateness of the BMPs selected. If it is determined that one or more of these BMPs are not appropriate for the facility, the plan must explain why it is not appropriate. If BMPs are implemented or planned but are not listed here (e.g., substituting a less toxic chemical for a more toxic one), descriptions of them must be included in the SWPPP.

(a) Sediment and erosion control. The measures to consider include: diversion of flow away from areas susceptible to erosion (measures such as interceptor dikes and swales, diversion dikes, curbs and berms); stabilization methods to prevent or minimize erosion (such as temporary or permanent seeding; vegetative buffer strips; protection of trees; topsoiling; soil conditioning; contouring; mulching; geotextiles (matting, netting, or blankets); riprap; gabions; and retaining walls); and structural methods for controlling sediment (such as check dams; rock outlet protection; level spreaders; gradient terraces; straw bale barriers; silt fences; gravel or stone filter berms; brush barriers; sediment traps; grass swales; pipe slope drains; earth dikes; other controls such as entrance stabilization, waterway crossings or wind breaks; or other equivalent measures).

(b) Storm water diversion. A description of how and where storm water will be diverted away from potential pollutant sources to prevent storm water contamination. BMP options may include the following: interceptor dikes and swales; diversion dikes, curbs and berms; pipe slope drains; subsurface drains; drainage/storm water conveyance systems (channels or gutters, open top box culverts and waterbars; rolling dips and road sloping; roadway surface water deflector and culverts) or equivalent measures.

(c) Management of runoff. The potential pollutant sources given in subsection C 1 b above must be considered when determining reasonable and appropriate measures for managing runoff.

(d) Capping. Where capping of a contaminant source is necessary, the source being capped and materials and procedures used to cap the contaminant source must be identified.

(e) Treatment. If treatment of a storm water discharge is necessary to protect water quality, include a description of the type and location of storm water treatment that will be used. Storm water treatments include the following: chemical or physical systems; oil/water separators; artificial wetlands; etc.

(f) Certification of discharge testing. The permittee must test or evaluate for the presence of specific mining-related nonstorm water discharges such as seeps or adit discharges or discharges subject to effluent limitations guidelines, such as mine drainage or process water. Alternatively (if applicable), the permittee may certify in the SWPPP that a particular discharge comprised of commingled storm water and nonstorm water is covered under a separate VPDES permit; and that permit subjects the nonstorm water portion to effluent limitations prior to any commingling. This certification shall identify the nonstorm water discharges, the applicable VPDES permit(s), the effluent limitations placed on the nonstorm water discharge by the permit(s), and the points at which the limitations are applied.

2. SWPPP requirements for inactive metal mining facilities.

a. Site description.

(1) Activities at the facility. The SWPPP shall briefly describe the mining and associated activities that took place at the site that can potentially affect the storm water discharges covered by this permit. The following must be included: approximate dates of operation; total acreage within the mine and/or processing site; estimate of acres of disturbed earth; activities currently occurring on-site (e.g., reclamation); a general description of site location with respect to transportation routes and communities.

(2) Site map. The site map shall identify the locations of the following, as appropriate: mining/milling site boundaries; access and haul roads; an outline of the drainage areas of each storm water outfall within the facility, and an indication of the types of discharges from the drainage areas; equipment storage, fueling and maintenance areas; materials handling areas; outdoor manufacturing, storage or material disposal areas; storage areas for chemicals and explosives; areas used for storage of overburden, materials, soils or wastes; location of mine drainage (where water leaves mine) or any other process water; tailings piles/ponds, both proposed and existing; heap leach pads; points of discharge from the property for mine drainage/process water; surface waters; and boundary of tributary areas that are subject to effluent limitations guidelines.

b. Summary of potential pollutant sources. For each area of the mine/mill site where storm water discharges associated with industrial activities occur, the types of pollutants likely to be present in significant amounts must be identified (e.g., heavy metals, sediment). The following factors must be considered: the mineralogy of the ore and waste rock (e.g., acid forming); toxicity and quantity of chemicals used, produced or discharged; the likelihood, if any, of contact with storm water; vegetation of site; history of significant leaks/spills of toxic or hazardous pollutants. A summary of any existing ore or waste rock/overburden characterization data and test results for potential generation of acid rock shall also be included. If the ore or waste rock/overburden characterization data are updated due to a change in the ore type being mined, the SWPPP shall be updated with the new data.

c. Storm water controls.

(1) Nonstructural BMPs. The nonstructural controls in the general requirements at Part III B 6 b(1) are not required for inactive facilities.

(2) Structural BMPs. Each of the following BMPs shall be considered in the SWPPP. The potential pollutants identified in subpart E 2 b above shall determine the priority and appropriateness of the BMPs selected. If it is determined that one or more of these BMPs are not appropriate for the facility, the plan must explain why it is not appropriate. If BMPs are implemented or planned but are not listed here (e.g., substituting a less toxic chemical for a more toxic one), descriptions of them must be included in the SWPPP.

(a) Sediment and erosion control. The measures to consider include: diversion of flow away from areas susceptible to erosion (measures such as interceptor dikes and swales, diversion dikes, curbs and berms); stabilization methods to prevent or minimize erosion (such as temporary or permanent seeding; vegetative buffer strips; protection of trees; topsoiling; soil conditioning; contouring; mulching; geotextiles (matting; netting; or blankets); riprap; gabions; and retaining walls; and structural methods for controlling sediment (such as check dams; rock outlet protection; level spreaders; gradient terraces; straw bale barriers; silt fences; gravel or stone filter berms; brush barriers; sediment traps; grass swales; pipe slope drains; earth dikes; other controls such as entrance stabilization, waterway crossings or wind breaks; or other equivalent measures).

(b) Storm water diversion. A description of how and where storm water will be diverted away from potential pollutant sources to prevent storm water contamination. BMP options may include the following: interceptor dikes and swales; diversion dikes, curbs and berms; pipe slope drains; subsurface drains; drainage/storm water conveyance systems (channels or gutters, open top box culverts and waterbars; rolling dips and road sloping; roadway surface water deflector and culverts) or equivalent measures.

(c) Management of runoff. The potential pollutant sources given in subsection E 2 b above must be considered when determining reasonable and appropriate measures for managing runoff.

(d) Capping. Where capping of a contaminant source is necessary, the source being capped and materials and procedures used to cap the contaminant source must be identified.

(e) Treatment. If treatment of a storm water discharge is necessary to protect water quality, include a description of the type and location of storm water treatment that will be used. Storm water treatments include the following: chemical or physical systems; oil/water separators; artificial wetlands; etc..

d. Comprehensive site compliance evaluation. Annual site compliance evaluations may be impractical for inactive mining sites due to remote location/inaccessibility of the site, in which case the permittee must conduct the evaluation at least once every three years. The SWPPP must be documented to explain why annual compliance evaluations are not possible. If the evaluations will be conducted more often than every three years, the frequency of evaluations must be specified.

Sector H - Coal mines and coal mining-related facilities.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from coal mining-related areas (SIC Major Group 12) if (i) they are not subject to effluent limitations guidelines under 40 CFR Part 434 or (ii) they are not subject to the standards of the Surface Mining Control and Reclamation Act of 1977 (SMCRA) (30 USC § 1201 et seq.) and the Virginia Department of Mines, Minerals and Energy's individual permit requirements. The requirements of this section shall apply to storm water discharges from coal mining-related activities exempt from SMCRA, including the public financed exemption, the 16-2/3% exemption, the private use exemption, the under 250 tons exemption, the nonincidental tipples exemption, and the exemption for coal piles and preparation plants associated with the end user. Storm water discharges from the following portions of eligible coal mines and coal mining related facilities may be eligible for this permit: haul roads (nonpublic roads on which coal or coal refuse is conveyed), access roads (nonpublic roads providing light vehicular traffic within the facility property and to public roadways), railroad spurs, sidings, and internal haulage lines (rail lines used for hauling coal within the facility property and to off-site commercial railroad lines or loading areas); conveyor belts, chutes, and aerial tramway haulage areas (areas under and around coal or refuse conveyor areas, including transfer stations); and equipment storage and maintenance yards, coal handling buildings and structures, coal tipples, coal loading facilities and inactive coal mines and related areas (abandoned and other inactive mines, refuse disposal sites and other mining-related areas).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff:

- (1) Drainage direction and discharge points from all applicable mining-related areas described in subsection A above;
- (2) Acidic spoil, refuse or unreclaimed disturbed areas; and
- (3) Liquid storage tanks containing pollutants such as caustics, hydraulic fluids and lubricants.

b. Summary of potential pollutant sources. A description of the potential pollutant sources from the following activities: truck traffic on haul roads and resulting generation of sediment subject to runoff and dust generation; fuel or other liquid storage; pressure lines containing slurry, hydraulic fluid or other potential harmful liquids; and loading or temporary storage of acidic refuse/spoil.

2. Storm water controls.

a. Good housekeeping. As part of the facility's good housekeeping program, the permittee should consider the following: using sweepers, covered storage, and watering of haul roads to minimize dust generation ; and conservation of vegetation (where possible) to minimize erosion.

b. Preventive maintenance. The permittee shall also perform inspections of storage tanks and pressure lines for fuels, lubricants, hydraulic fluid or slurry to prevent leaks due to deterioration or faulty connections; or other equivalent measures.

3. Comprehensive site compliance evaluation. The evaluation program shall also include inspections for pollutants entering the drainage system from activities located on or near coal mining-related areas. Among the areas to be inspected: haul and access roads; railroad spurs, sliding and internal hauling lines; conveyor belts, chutes and aerial tramways; equipment storage and maintenance yards; coal handling buildings/structures; and inactive mines and related areas.

Sector I - Oil and gas extraction and refining.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from oil and gas extraction and refining facilities listed under SIC Major Group 13 which have had a discharge of a reportable quantity (RQ) of oil or a hazardous substance for which notification is required under 40 CFR 110.6, 40 CFR 117.21 or 40 CFR 302.6. These include oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with any overburden raw material, intermediate products, finished products, by-products or waste products located on the site of such operations. Industries in SIC Major Group 13 include the extraction and production of crude oil, natural gas, oil sands and shale; the production of hydrocarbon liquids and natural gas from coal; and associated oilfield service, supply and repair industries. This section also covers petroleum refineries listed under SIC Code 2911.

Contaminated storm water discharges from petroleum refining or drilling operations that are subject to nationally established BAT or BPT guidelines found at 40 CFR Part 419 and 40 CFR Part 435 respectively are not authorized by this permit.

Note: most contaminated discharges from petroleum refining and drilling facilities are subject to these effluent guidelines and are not eligible for coverage under this permit.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: reportable quantity (RQ) releases; locations used for the treatment, storage or disposal of wastes; processing areas and storage areas; chemical mixing areas; construction and drilling areas; all areas subject to the effluent guidelines requirement of "No Discharge" in accordance with 40 CFR 435.32 and the structural controls to achieve compliance with the "No Discharge" requirement.

b. Summary of potential pollutant sources.

(1) The plan shall also include a description of the potential pollutant sources from the following activities: chemical, cement, mud or gel mixing activities; drilling or mining activities; and equipment cleaning and rehabilitation activities.

(2) The plan must include information about the RQ release which triggered the permit application requirements , including: the nature of the release (e.g., spill of oil from a drum storage area); the amount of oil or hazardous substance released; amount of substance recovered; date of the release; cause of the release (e.g., poor handling techniques and lack of containment in the area); areas affected by the release, including land and waters; procedure to cleanup release; actions or procedures implemented to prevent or improve response to a release; and remaining potential contamination of storm water from release (taking into account human health risks, the control of drinking water intakes, and the designated uses of the receiving water).

2. Storm water controls.

a. Routine facility inspections. All equipment and areas addressed in the SWPPP shall be inspected at a minimum of six-month intervals. Equipment and vehicles which store, mix (including all on-site and off-site mixing tanks) or transport chemicals/hazardous materials (including those transporting supplies to oil field activities) will be inspected at least quarterly. For temporarily or permanently inactive oil and gas extraction facilities within Major SIC Group 13, which are remotely located and unstaffed, the inspections shall be performed at least annually.

b. Sediment and erosion control. Unless covered by another VPDES permit, the additional erosion control requirement for well drillings and sand/shale mining areas are as follows:

(1) Site description. Each plan shall provide a description of the following:

(a) A description of the nature of the exploration activity;

(b) Estimates of the total area of the site and the area of the site that is expected to be disturbed due to the exploration activity;

- (c) An estimate of the runoff coefficient of the site;
- (d) A site map indicating drainage patterns and approximate slopes; and
- (e) The name of all receiving water(s).

(2) Vegetative controls. The SWPPP shall include a description of vegetative practices designed to preserve existing vegetation where attainable and revegetate open areas as soon as practicable after grade drilling. Such practices may include: temporary or permanent seeding, mulching, sod stabilization, vegetative buffer strips, tree protection practices. The permittee shall initiate appropriate vegetative practices on all disturbed areas within 14 calendar days of the last activity at that area.

(3) Off-site vehicle tracking of sediments shall be minimized.

(4) Procedures in the plan shall provide that all erosion controls on the site are inspected at least once every seven calendar days.

c. Good housekeeping measures.

(1) Vehicle and equipment storage areas. The storage of vehicles and equipment awaiting or having completed maintenance must be confined to designated areas (delineated on the site map). The plan must describe measures that prevent or minimize contamination of the storm water runoff from these areas (e.g., drip pans under equipment, indoor storage, use of berms and dikes, or other equivalent measures).

(2) Materials and chemical storage areas. Storage units of all chemicals and materials must be maintained in good condition so as to prevent contamination of storm water. Hazardous materials must be plainly labeled.

(3) Chemical mixing areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from chemical mixing areas.

Sector J - Mineral Mining and Dressing (facilities described by this sector are not covered by this general permit - see 9 VAC 25-190, Nonmetallic Mineral Mining General Permit).

Sector K - Hazardous waste treatment, storage, or disposal facilities.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities that treat, store, or dispose of hazardous wastes, including those that are operating under interim status or a permit under subtitle C of RCRA (Industrial Activity Code "HZ"). Disposal facilities that have been properly closed and capped, and have no significant materials exposed to storm water, are considered inactive and do not require permits.

B. Definitions.

"Contaminated storm water" means storm water that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in this section. Some specific areas of a landfill that may produce contaminated storm water include, but are not limited to: the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.

"Drained free liquids" means aqueous wastes drained from waste containers (e.g., drums, etc.) prior to landfilling.

"Land treatment facility" means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

"Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, a salt bed formation, an underground mine or a cave as these terms are defined in 40 CFR 257.2, 40 CFR 258.2 and 40 CFR 260.10.

"Landfill wastewater" as defined in 40 CFR Part 445 (Landfills Point Source Category) means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, noncontaminated storm water, contaminated ground water, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

"Leachate" means liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.

"Noncontaminated storm water" means storm water that does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined above. Noncontaminated storm water includes storm water that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

"Pile" means any noncontainerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage and that is not a containment building.

"Surface impoundment" means a facility or part of a facility that is a natural topographic depression, man-made excavation or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold

an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds and lagoons.

C. Storm water pollution prevention plan requirements. There are no SWPPP requirements for this sector in addition to those listed in Part III.

Sector L - Landfills, land application sites and open dumps.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from waste disposal at landfills, land application sites, and open dumps that receive or have received industrial wastes (Industrial Activity Code "LF"). Open dumps are solid waste disposal units that are not in compliance with state/federal criteria established under RCRA Subtitle D. Landfills, land application sites, and open dumps that have storm water discharges from other types of industrial activities such as vehicle maintenance, truck washing, and/or recycling may be subject to additional requirements specified elsewhere in this permit.

B. Definitions.

"Contaminated storm water" means storm water that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined below. Some specific areas of a landfill that may produce contaminated storm water include, but are not limited to: the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.

"Drained free liquids" means aqueous wastes drained from waste containers (e.g., drums, etc.) prior to landfilling.

"Land treatment facility" means a facility or part of a facility at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are disposal facilities if the waste will remain after closure.

"Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, a salt bed formation, an underground mine or a cave as these terms are defined in 40 CFR 257.2, 40 CFR 258.2 and 40 CFR 260.10.

"Landfill wastewater" as defined in 40 CFR Part 445 (Landfills Point Source Category) means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, noncontaminated storm water, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated storm water and contact washwater from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

"Leachate" means liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.

"Noncontaminated storm water" means storm water that does not come into direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined above. Noncontaminated storm water includes storm water that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

"Surface impoundment" means a facility or part of a facility that is a natural topographic depression, man-made excavation or diked area formed primarily of earthen materials (although it may be lined with man-made materials), which is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and which is not an injection well. Examples of surface impoundments are holding, storage, settling, and aeration pits, ponds and lagoons.

C. Storm water pollution prevention plan requirements. In addition to the requirements in Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: active and closed landfill cells or trenches ; active and closed land application areas; locations where open dumping is occurring or has occurred; locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff; and leachate collection and handling systems.

b. Summary of potential pollutant sources. The SWPPP shall also include a description of potential pollutant sources associated with any of the following: fertilizer, herbicide and pesticide application; earth/soil moving; waste hauling and loading/unloading; outdoor storage of significant materials including daily, interim and final cover material stockpiles as well as temporary waste storage areas; exposure of active and inactive landfill and land application areas; uncontrolled leachate flows; and failure or leaks from leachate collection and treatment systems.

2. Storm water controls.

a. Preventive maintenance program. As part of the preventive maintenance program, the permittee shall maintain: all containers used for outdoor chemical/significant materials storage to prevent leaking ; all elements of leachate collection and treatment systems to prevent commingling of leachate with storm water; and the integrity and effectiveness of any intermediate or final cover (including making repairs to the cover as necessary to minimize the effects of settlement, sinking, and erosion).

b. Good housekeeping measures. As part of the good housekeeping program, the permittee shall consider providing protected storage areas for pesticides, herbicides, fertilizer and other significant materials.

c. Routine facility inspections.

(1) Inspections of active sites. Operating landfills, open dumps, and land application sites shall be inspected at least once every seven days. Qualified personnel shall inspect areas of landfills that have not yet been finally stabilized, active land application areas, areas used for storage of materials/wastes that are exposed to precipitation, stabilization and structural control measures, leachate collection and treatment systems, and locations where equipment and waste trucks enter and exit the site. Erosion and sediment control measures shall be observed to ensure they are operating correctly. For stabilized sites and areas where land application has been completed, or where the climate is seasonally arid (annual rainfall averages from 0 to 10 inches) or semi-arid (annual rainfall averages from 10 to 20 inches), inspections shall be conducted at least once every month.

(2) Inspections of inactive sites. Inactive landfills, open dumps, and land application sites shall be inspected at least quarterly. Qualified personnel shall inspect landfill (or open dump) stabilization and structural erosion control measures and leachate collection and treatment systems, and all closed land application areas.

d. Recordkeeping and internal reporting procedures. Landfill and open dump owners shall provide for a tracking system for the types of wastes disposed of in each cell or trench of a landfill or open dump. Land application site owners shall track the types and quantities of wastes applied in specific areas.

e. Nonstorm water discharge test certification. The discharge test and certification must also be conducted for the presence of leachate and vehicle washwater.

f. Sediment and erosion control plan. Landfill and open dump owners shall provide for temporary stabilization of materials stockpiled for daily, intermediate, and final cover. Stabilization practices to consider include, but are not limited to, temporary seeding, mulching, and placing geotextiles on the inactive portions of the stockpiles. Landfill and open dump owners shall provide for temporary stabilization of inactive areas of the landfill or open dump which have an intermediate cover but no final cover. Landfill and open dump owners shall provide for temporary stabilization of any landfill or open dumping areas which have received a final cover until vegetation has established itself. Land application site owners shall also stabilize areas where waste application has been completed until vegetation has been established.

g. Comprehensive site compliance evaluation. Areas contributing to a storm water discharge associated with industrial activities at landfills, open dumps and land application sites shall be evaluated for evidence of, or the potential for, pollutants entering the drainage system.

Sector M - Automobile salvage yards.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities engaged in dismantling or wrecking used motor vehicles for parts recycling/resale and for scrap (SIC Code 5015).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items:

1. Site description.

a. Site map. The map must include an estimation (in acres) of the total area used for industrial activity including, but not limited to, dismantling, storage, and maintenance of used motor vehicle parts. The site map must also identify where any of the following may be exposed to precipitation/surface runoff: vehicle storage areas; dismantling areas; parts storage areas (e.g., engine blocks, tires, hub caps, batteries, hoods, mufflers); and liquid storage tanks and drums for fuel and other fluids.

b. Summary of potential pollutant sources. The permittee must assess the potential for the following activities to contribute pollutants to storm water discharges: vehicle storage areas; dismantling areas; parts storage areas (e.g., engine blocks, tires, hub caps, batteries, and hoods); fueling stations.

2. Storm water controls.

a. Spill and leak prevention procedures. After clean up from a spill, absorbents must be promptly placed in containers for proper disposal. All vehicles that are intended to be dismantled must be properly drained of all fluids prior to being dismantled or crushed, or other equivalent means must be taken to prevent leaks or spills of fluids including motor oil, transmission fluid, fuel and antifreeze.

b. Inspections. Upon arrival at the site, or as soon as feasible thereafter, vehicles must be inspected for leaks. Any equipment containing oily parts, hydraulic fluids, or any other types of fluids shall be inspected at least quarterly (four times per year) for signs of leaks. Any outdoor storage of fluids including, but not limited to, brake fluid, transmission fluid, radiator water, and antifreeze, must be inspected at least quarterly for leaks. All outdoor liquid storage containers (e.g., tanks, drums) must be inspected at least quarterly for leaks.

c. Employee training. Employee training must, at a minimum, address the following areas when applicable to a facility: proper handling (collection, storage, and disposal) of oil, used mineral spirits, anti-freeze, and solvents.

d. Management of runoff. The plan must consider management practices, such as berms or drainage ditches on the property line, that may be used to prevent runoff from neighboring properties. Berms must be considered for uncovered outdoor storage of oily parts, engine blocks, and aboveground liquid storage. The permittee shall consider the installation of detention ponds, filtering devices, and oil/water separators.

Sector N - Scrap recycling and waste recycling facilities.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities that are engaged in the processing, reclaiming and wholesale distribution of scrap and waste materials such as ferrous and nonferrous metals, paper, plastic, cardboard, glass, animal hides (these types of activities are typically identified as SIC Code 5093), and facilities that are engaged in reclaiming and recycling liquid wastes such as used oil, antifreeze, mineral spirits, and industrial solvents (also identified as SIC Code 5093). Separate permit requirements have been established for recycling facilities that only receive source-separated recyclable materials primarily from nonindustrial and residential sources (also identified as SIC Code 5093) (e.g., common consumer products including paper, newspaper, glass, cardboard, plastic containers, aluminum and tin cans). This includes recycling facilities commonly referred to as material recovery facilities (MRF). Separate permit requirements have also been established for facilities that are engaged in dismantling ships, marine salvaging, and marine wrecking - ships for scrap (SIC 4499, limited to those listed; for others in SIC 4499 not listed above, see Sector Q).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, all facilities are required to comply with the general SWPPP requirement in subdivision 1 of this subsection. Subdivisions 2 through 5 of this subsection have SWPPP requirements for specific types of recycling facilities. The permittee shall implement and describe in the SWPPP a program to address those items that apply. Included are lists of BMP options that, along with any functional equivalents, should be considered for implementation. Selection or deselection of a particular BMP or approach is up to the best professional judgment of the permittee, as long as the objective of the requirement is met.

1. Site description. Site map. The site map shall identify the locations where any of the following activities or sources may be exposed to precipitation/surface runoff: scrap and waste material storage, outdoor scrap and waste processing equipment, and containment areas for turnings exposed to cutting fluids.

2. Scrap recycling and waste recycling facilities (nonsource-separated, nonliquid recyclable materials). The following SWPPP special conditions have been established for facilities that receive, process and do wholesale distribution of nonliquid recyclable wastes (e.g., ferrous and nonferrous metals, plastics, glass, cardboard and paper). These facilities may receive both nonrecyclable and recyclable materials. This section is not intended for those facilities that only accept recyclable materials primarily from nonindustrial and residential sources.

a. Inbound recyclable and waste material control program. The plan shall include a recyclable and waste material inspection program to minimize the likelihood of receiving materials that may be significant pollutant sources to storm water discharges. BMP options:

- (1) Provision of information/education flyers, brochures and pamphlets to suppliers of scrap and recyclable waste materials on draining and properly disposing of residual fluids prior to delivery to the facility (e.g., from vehicles and equipment engines, radiators, and transmissions, oil-filled transformers, and individual containers or drums);
- (2) Procedures to minimize the potential of any residual fluids from coming in contact with precipitation/runoff.
- (3) Procedures for accepting scrap lead-acid batteries. (Additional requirements for the handling, storage and disposal or recycling of batteries are contained in the scrap lead-acid battery program provisions in subsection B 2 f below);
- (4) Training targeted for those personnel engaged in the inspection and acceptance of inbound recyclable materials;
- (5) Liquid wastes, including used oil, shall be stored in materially compatible and nonleaking containers and disposed or recycled in accordance with all requirements under the Resource Recovery and Conservation Act (RCRA), and other state or local requirements.

b. Scrap and waste material stockpiles/storage (outdoor). The plan must describe measures and controls to minimize contact of storm water runoff with stockpiled materials, processed materials and nonrecyclable wastes. BMP options:

- (1) Permanent or semipermanent covers ;
- (2) The use of sediment traps, vegetated swales and strips, catch basin filters and sand filters to facilitate settling or filtering of pollutants ;
- (3) Diversion of runoff away from storage areas via dikes, berms, containment trenches, culverts and surface grading;
- (4) Silt fencing;
- (5) Oil/water separators, sumps and dry adsorbents for areas where potential sources of residual fluids are stockpiled (e.g., automotive engine storage areas).

c. Stockpiling of turnings exposed to cutting fluids (outdoor). The plan shall implement measures necessary to minimize contact of surface runoff with residual cutting fluids. BMP options (use singularly or in combination):

(1) Storage of all turnings exposed to cutting fluids under some form of permanent or semipermanent cover. Storm water discharges from these areas are permitted provided the runoff is first treated by an oil/water separator or its equivalent. Procedures to collect, handle, and dispose or recycle residual fluids that may be present shall be identified in the plan;

(2) Establish dedicated containment areas for all turnings that have been exposed to cutting fluids. Storm water runoff from these areas can be discharged provided:

- (a) The containment areas are constructed of either concrete, asphalt or other equivalent type of impermeable material;
- (b) There is a barrier around the perimeter of the containment areas to prevent contact with storm water runoff (e.g., berms, curbing, elevated pads, etc.);
- (c) There is a drainage collection system for runoff generated from containment areas;
- (d) There is a schedule to maintain the oil/water separator (or its equivalent) ; and
- (e) Procedures are identified for the proper disposal or recycling of collected residual fluids.

d. Scrap and waste material stockpiles/storage (covered or indoor storage). The plan shall address measures and controls to minimize contact of residual liquids and particulate matter from materials stored indoors or under cover from coming in contact with surface runoff. BMP options:

- (1) Good housekeeping measures, including the use of dry absorbent or wet vacuum clean up methods, to contain or dispose/recycle residual liquids originating from recyclable containers ;
- (2) Prohibiting the practice of allowing washwater from tipping floors or other processing areas from discharging to the storm sewer system;
- (3) Disconnecting or sealing off all floor drains connected to the storm sewer system.

e. Scrap and recyclable waste processing areas. The plan shall include measures and controls to minimize surface runoff from coming in contact with scrap processing equipment. In the case of processing equipment that generate visible amounts of particulate residue (e.g., shredding facilities), the plan shall describe measures to minimize the contact of residual fluids and accumulated particulate matter with runoff (i.e., through good housekeeping, preventive maintenance, etc.). BMP options:

- (1) A schedule of regular inspections of equipment for leaks, spills, malfunctioning, worn or corroded parts or equipment;
- (2) A preventive maintenance program for processing equipment;
- (3) Use of dry-absorbents or other cleanup practices to collect and to dispose/recycle spilled/leaking fluids;
- (4) Installation of low-level alarms or other equivalent protection devices on unattended hydraulic reservoirs over 150 gallons in capacity. Alternatively, provide secondary containment with sufficient volume to contain the entire volume of the reservoir.
- (5) Containment or diversion structures such as dikes, berms, culverts, trenches, elevated concrete pads, and grading to minimize contact of storm water runoff with outdoor processing equipment or stored materials;
- (6) Oil/water separators or sumps ;
- (7) Permanent or semipermanent covers in processing areas where there are residual fluids and grease;
- (8) Retention and detention basins or ponds, sediment traps, vegetated swales or strips, to facilitate pollutant settling/filtration ;
- (9) Catch basin filters or sand filters.

f. Scrap lead-acid battery program. The plan shall address measures and controls for the proper handling, storage and disposal of scrap lead-acid batteries. BMP options:

- (1) Segregate scrap lead-acid batteries from other scrap materials;
- (2) A description of procedures and/or measures for the proper handling, storage and disposal of cracked or broken batteries;
- (3) A description of measures to collect and dispose of leaking lead-acid battery fluid ;
- (4) A description of measures to minimize and, whenever possible, eliminate exposure of scrap lead-acid batteries to precipitation or runoff;
- (5) A description of employee training for the management of scrap batteries.

g. Spill prevention and response procedures. The SWPPP shall include measures to minimize storm water contamination at loading/unloading areas, and from equipment or container failures. BMP options:

- (1) Description of spill prevention and response measures to address areas that are potential sources of fluid leaks or spills ;

- (2) Immediate containment and clean up of spills/leaks. If malfunctioning equipment is responsible for the spill/leak, repairs should also be conducted as soon as possible;
- (3) Cleanup procedures should be identified in the plan, including the use of dry absorbents. Where dry absorbent cleanup methods are used, an adequate supply of dry absorbent material should be maintained on-site. Used absorbent material should be disposed of properly;
- (4) Drums containing liquids, especially oil and lubricants, should be stored: indoors; in a bermed area; in overpack containers or spill pallets; or in similar containment devices;
- (5) Overfill prevention devices should be installed on all fuel pumps or tanks;
- (6) Drip pans or equivalent measures should be placed under any leaking piece of stationary equipment until the leak is repaired. The drip pans should be inspected for leaks and potential overflow and all liquids properly disposed of in accordance with RCRA requirements ;
- (7) An alarm and/or pump shut off system should be installed on outdoor equipment with hydraulic reservoirs exceeding 150 gallons in order to prevent draining the tank contents in the event of a line break. Alternatively, the equipment may have a secondary containment system capable of containing the contents of the hydraulic reservoir plus adequate freeboard for precipitation.

h. Quarterly inspection program. All designated areas of the facility and equipment identified in the plan shall be inspected at least quarterly.

i. Supplier notification program. The plan shall include a program to notify major suppliers which scrap materials will not be accepted at the facility or are only accepted under certain conditions.

3. Waste recycling facilities (liquid recyclable wastes).

a. Waste material storage (indoor). The plan shall include measures and controls to minimize/eliminate contact between residual liquids from waste materials stored indoors and surface runoff. The plan may refer to applicable portions of other existing plans such as SPCC plans required under 40 CFR Part 112. BMP options:

- (1) Procedures for material handling (including labeling and marking);
- (2) A sufficient supply of dry-absorbent materials or a wet vacuum system to collect spilled or leaked materials;
- (3) An appropriate containment structure, such as trenches, curbing, gutters or other equivalent measures;
- (4) A drainage system, including appurtenances (e.g., pumps or ejectors, or manually operated valves), to handle discharges from diked or bermed areas. Drainage should be discharged to an appropriate treatment facility, sanitary sewer system, or otherwise disposed of properly. Discharges from these areas may require coverage under a separate VPDES permit or industrial user permit under the pretreatment program.

b. Waste material storage (outdoor). The plan shall describe measures and controls to minimize contact between stored residual liquids and precipitation or runoff. The plan may refer to applicable portions of other existing plans such as SPCC plans required under 40 CFR Part 112 (2002). Discharges of precipitation from containment areas containing used oil shall also be in accordance with applicable sections of 40 CFR Part 112. BMP options:

- (1) Appropriate containment structures (e.g., dikes, berms, curbing, pits) to store the volume of the largest single tank, with sufficient extra capacity for precipitation;
- (2) Drainage control and other diversionary structures;
- (3) For storage tanks, provide corrosion protection and/or leak detection systems;
- (4) Dry-absorbent materials or a wet vacuum system to collect spills.

c. Truck and rail car waste transfer areas. The plan shall describe measures and controls to minimize pollutants in discharges from truck and rail car loading/unloading areas. The plan shall also address measures to clean up minor spills/leaks resulting from the transfer of liquid wastes. BMP options:

- (1) Containment and diversionary structures to minimize contact with precipitation or runoff;
- (2) Use of dry cleanup methods, wet vacuuming, roof coverings, or runoff controls.

d. Quarterly inspections. The quarterly inspections shall also include all areas where waste is generated, received, stored, treated or disposed that are exposed to either precipitation or storm water runoff.

4. Recycling facilities (source separated materials). The following SWPPP special conditions have been established for facilities that receive only source-separated recyclable materials primarily from nonindustrial and residential sources.

a. Inbound recyclable material control. The plan shall include an inbound materials inspection program to minimize the likelihood of receiving nonrecyclable materials (e.g., hazardous materials) that may be a significant source of pollutants in surface runoff. BMP options:

- (1) Information and education measures to inform suppliers of recyclable materials on the types of materials that are acceptable and those that are not acceptable ;
- (2) A description of training measures for drivers responsible for pickup of recyclable materials;
- (3) Clearly marking public drop-off containers regarding which materials can be accepted;
- (4) Rejecting nonrecyclable wastes or household hazardous wastes at the source;
- (5) Procedures for the handling and disposal of nonrecyclable materials.

b. Outdoor storage. The plan shall include procedures to minimize the exposure of recyclable materials to surface runoff and precipitation. The plan shall include good housekeeping measures to prevent the accumulation of particulate matter and fluids, particularly in high traffic areas. BMP options:

- (1) Provide totally-enclosed drop-off containers for the public;
- (2) Install a sump/pump with each containment pit, and discharge collected fluids to a sanitary sewer system;
- (3) Provide dikes and curbs for secondary containment (e.g., around bales of recyclable waste paper);
- (4) Divert surface runoff away from outside material storage areas;
- (5) Provide covers over containment bins, dumpsters, roll-off boxes;
- (6) Store the equivalent one day's volume of recyclable materials indoors.

c. Indoor storage and material processing. The plan shall include measures to minimize the release of pollutants from indoor storage and processing areas. BMP options:

- (1) Schedule routine good housekeeping measures for all storage and processing areas;
- (2) Prohibit a practice of allowing tipping floor washwaters from draining to any portion of the storm sewer system; and
- (3) Provide employee training on pollution prevention practices.

d. Vehicle and equipment maintenance. The plan shall also provide for BMPs in those areas where vehicle and equipment maintenance is occurring outdoors. BMP options:

- (1) Prohibit vehicle and equipment washwater from discharging to the storm sewer system;
- (2) Minimize or eliminate outdoor maintenance areas, wherever possible;
- (3) Establish spill prevention and clean-up procedures in fueling areas;
- (4) Avoid topping off fuel tanks;
- (5) Divert runoff from fueling areas;
- (6) Store lubricants and hydraulic fluids indoors;
- (7) Provide employee training on proper, handling, storage of hydraulic fluids and lubricants.

5. Facilities engaged in dismantling ships, marine salvaging, and marine wrecking - ships for scrap. The following SWPPP special conditions have been established for facilities that are engaged in dismantling ships, marine salvaging, and marine wrecking - ships for scrap.

Vessel Breaking/Scrapping Activities. Scrapping of vessels shall be accomplished ashore beyond the range of mean high tide, whenever practicable. If this activity must be conducted while a vessel is afloat or grounded in state waters, then the permittee must employ BMPs to reduce the amount of pollutants released. The following BMPs shall be implemented during those periods when vessels (ships, barges, yachts, etc.) are brought to the facility's site for recycling, scrapping and storage prior to scrapping.

a. Fixed or floating platforms sufficiently sized and constructed to catch and prevent scrap materials and pollutants from entering state waters (or equivalent measures approved by the department) shall be used as work surfaces when working on or near the water surface. These platforms shall be cleaned as required to prevent pollutants from entering state waters and at the end of each work shift. All scrap metals and pollutants shall be collected in a manner to prevent releases(containerization is recommended).

b. There shall be no discharge of oil or oily wastewater at the facility. Drip pans and other protective devices shall be required for all oil and oily waste transfer operations to catch incidental spillage and drips from hose nozzles, hose racks, drums or barrels. Drip pans and other protective devices shall be inspected and maintained to prevent releases. Oil and oily waste must be disposed at a permitted facility and adequate documentation of off-site disposition shall be retained for review by the board upon request.

c. During the storage/breaking/scrapping period, oil containment boom(s) shall be deployed either around the vessel being scrapped, or across the mouth of the facility's wet slip, to contain pollutants in the event of a spill. Booms must be inspected,

maintained, and repaired as needed. Oil, grease and fuel spills shall be prevented from reaching state waters. Cleanup shall be carried out promptly after an oil, grease, and/or fuel spill is detected.

d. Paint and solvent spills shall be immediately cleaned up to prevent pollutants from reaching storm drains, deck drains, and state waters.

e. Contaminated bilge and ballast water shall not be discharged to state waters. If it becomes necessary to dispose of contaminated bilge and ballast waters during a vessel breaking activity, the wastewater must be disposed at a permitted facility and adequate documentation of off-site disposition shall be retained for review by the board upon request.

Sector O - Steam electric generating facilities.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from steam electric power generating facilities using coal, natural gas, oil, nuclear energy, etc. to produce a steam source, including coal handling areas (Industrial Activity Code "SE"). Storm water discharges from coal pile runoff subject to numeric effluent limitations are eligible for coverage under this permit, but are subject to the limitations established by Part I A 1 c. Storm water discharges from ancillary facilities (e.g., fleet centers, gas turbine stations, and substations) that are not contiguous to a steam electric power generating facility are not covered by this permit. Heat capture/heat recovery combined cycle generation facilities are also not covered by this permit; however, dual fuel co-generation facilities that generate electric power are included.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the plan shall include, at a minimum, the following items.

1. Site description. Site map. The site map shall identify the locations of any of the following activities or sources that may be exposed to precipitation/surface runoff: storage tanks, scrap yards, general refuse areas; short and long term storage of general materials (including, but not limited to: supplies, construction materials, plant equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides); landfills; construction sites; and stock pile areas (such as coal or limestone piles).

2. Storm water controls.

a. Good housekeeping measures.

(1) Fugitive dust emissions. The permittee shall describe and implement measures that prevent or minimize fugitive dust emissions from coal handling areas. The permittee shall consider establishing procedures to minimize off-site tracking of coal dust such as installing specially designed tires, or washing vehicles in a designated area before they leave the site, and controlling the wash water.

(2) Delivery vehicles. The plan must describe measures that prevent or minimize contamination of storm water runoff from delivery vehicles arriving on the plant site. At a minimum the permittee shall consider the following:

(a) Develop procedures for the inspection of delivery vehicles arriving on the plant site, and ensure overall integrity of the body or container; and

(b) Develop procedures to deal with leakage/spillage from vehicles or containers.

(3) Fuel oil unloading areas. The plan must describe measures that prevent or minimize contamination of precipitation/surface runoff from fuel oil unloading areas. At a minimum the permittee must consider using the following measures, or an equivalent:

(a) Use of containment curbs in unloading areas;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Use of spill and overflow protection (e.g., drip pans, drip diapers, and/or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(4) Chemical loading/unloading areas. The permittee must describe and implement measures that prevent or minimize the contamination of precipitation/surface runoff from chemical loading/unloading areas. At a minimum the permittee must consider using the following measures (or their equivalents):

(a) Use of containment curbs at chemical loading/unloading areas to contain spills;

(b) During deliveries, having station personnel familiar with spill prevention and response procedures present to ensure that any leaks/spills are immediately contained and cleaned up; and

(c) Covering chemical loading/unloading areas, and storing chemicals indoors.

(5) Miscellaneous loading/unloading areas. The permittee shall describe and implement measures that prevent or minimize the contamination of storm water runoff from loading and unloading areas. The permittee shall consider the following, at a minimum (or their equivalents): covering the loading area; grading, berming, or curbing around the loading area to divert runoff; or locating the loading/unloading equipment and vehicles so that leaks are contained in existing containment and flow diversion systems.

(6) Liquid storage tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from aboveground liquid storage tanks. At a minimum the permittee must consider employing the following measures (or their equivalents):

- (a) Use of protective guards around tanks;
- (b) Use of containment curbs;
- (c) Use of spill and overflow protection ; and
- (d) Use of dry cleanup methods.

(7) Large bulk fuel storage tanks. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from large bulk fuel storage tanks. At a minimum the permittee must consider employing containment berms (or its equivalent). The permittee shall also comply with applicable state and federal laws, including Spill Prevention Control and Countermeasures (SPCC).

(8) Spill reduction measures. The permittee shall describe and implement measures to reduce the potential for an oil/chemical spill, or reference the appropriate section of their SPCC plan. At a minimum the structural integrity of all aboveground tanks, pipelines, pumps and other related equipment shall be visually inspected on a weekly basis. All repairs deemed necessary based on the findings of the inspections shall be completed immediately to reduce the incidence of spills and leaks occurring from such faulty equipment.

(9) Oil bearing equipment in switchyards. The permittee shall describe and implement measures to prevent or minimize contamination of surface runoff from oil bearing equipment in switchyard areas. The permittee shall consider the use of level grades and gravel surfaces to retard flows and limit the spread of spills, and the collection of storm water runoff in perimeter ditches.

(10) Residue hauling vehicles. All residue hauling vehicles shall be inspected for proper covering over the load, adequate gate sealing and overall integrity of the container body. Vehicles without load coverings or adequate gate sealing, or with leaking containers or beds must be repaired as soon as practicable.

(11) Ash loading areas. The permittee shall describe and implement procedures to reduce or control the tracking of ash/residue from ash loading areas where practicable, clear the ash building floor and immediately adjacent roadways of spillage, debris and excess water before departure of each loaded vehicle.

(12) Areas adjacent to disposal ponds or landfills. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from areas adjacent to disposal ponds or landfills. The permittee must develop procedures to:

- (a) Reduce ash residue which may be tracked on to access roads traveled by residue trucks or residue handling vehicles; and
- (b) Reduce ash residue on exit roads leading into and out of residue handling areas.

(13) Landfills, scrapyards, surface impoundments, open dumps, general refuse sites. The plan must address and include appropriate BMPs for landfills, scrapyards, surface impoundments, open dumps and general refuse sites.

(14) Vehicle maintenance activities. For vehicle maintenance activities performed on the plant site, the permittee shall use the applicable BMPs outlined in Sector P.

(15) Material storage areas. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from material storage areas (including areas used for temporary storage of miscellaneous products, and construction materials stored in lay down areas). The permittee shall consider the use of the following measures (or their equivalents): flat yard grades; runoff collection in graded swales or ditches; erosion protection measures at steep outfall sites (e.g., concrete chutes, riprap, stilling basins); covering lay down areas; storing materials indoors; and covering materials temporarily with polyethylene, polyurethane, polypropylene, or hypalon. Storm water runoff may be minimized by constructing an enclosure or building a berm around the area.

b. Comprehensive site compliance evaluation. As part of the evaluation, qualified facility personnel shall inspect the following areas on a monthly basis: coal handling areas, loading/unloading areas, switchyards, fueling areas, bulk storage areas, ash handling areas, areas adjacent to disposal ponds and landfills, maintenance areas, liquid storage tanks, and long term and short term material storage areas.

Sector P - Land Transportation and Warehousing.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from ground transportation facilities and rail transportation facilities (generally identified by SIC Codes 40, 41, 42, 43, and 5171), that have vehicle and equipment maintenance shops (vehicle and equipment rehabilitation, mechanical repairs, painting, fueling and lubrication) and/or equipment cleaning operations. Also covered under this section are facilities found under SIC Codes 4221 through 4225 (public warehousing and storage) that do not have vehicle and equipment maintenance shops and/or equipment cleaning operations.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description. Site Map. The site map shall identify the locations of any of the following activities or sources: fueling stations; vehicle/equipment maintenance or cleaning areas; storage areas for vehicle/equipment with actual or potential fluid leaks; loading/unloading areas; areas where treatment, storage or disposal of wastes occur; liquid storage tanks; processing areas; storage areas; and all monitoring areas.

2. Summary of potential pollutant sources. The plan shall describe and assess the potential for the following to contribute pollutants to storm water discharges: on-site waste storage or disposal; dirt/gravel parking areas for vehicles awaiting maintenance; and fueling areas.

3. Storm water controls.

a. Good housekeeping.

(1) Vehicle and equipment storage areas. The storage of vehicles and equipment awaiting maintenance with actual or potential fluid leaks must be confined to designated areas (delineated on the site map). The permittee shall consider the following measures (or their equivalents): the use of drip pans under vehicles and equipment; indoor storage of vehicles and equipment; installation of berms or dikes; use of absorbents; roofing or covering storage areas; and cleaning pavement surface to remove oil and grease.

(2) Fueling areas. The permittee shall describe and implement measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider the following measures (or their equivalents): covering the fueling area; using spill/overflow protection and cleanup equipment; minimizing storm water runoff/runoff to the fueling area; using dry cleanup methods; and treating and/or recycling collected storm water runoff.

(3) Material storage areas. Storage vessels of all materials (e.g., for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) must be maintained in good condition, so as to prevent contamination of storm water, and plainly labeled (e.g., "used oil," "spent solvents," etc.). The permittee shall consider the following measures (or their equivalents): indoor storage of the materials; installation of berms/dikes around the areas, minimizing runoff of storm water to the areas; using dry cleanup methods; and treating and/or recycling the collected storm water runoff.

(4) Vehicle and equipment cleaning areas. The permittee shall describe and implement measures that prevent or minimize contamination of storm water runoff from all areas used for vehicle/equipment cleaning. The permittee shall consider the following measures (or their equivalents): performing all cleaning operations indoors; covering the cleaning operation; ensuring that all washwaters drain to a proper collection system (i.e., not the storm water drainage system unless VPDES permitted) ; and treating and/or recycling the collected storm water runoff. Note: the discharge of vehicle/equipment wash waters, including tank cleaning operations, are not authorized by this permit and must be covered under a separate VPDES permit or discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements.

(5) Vehicle and equipment maintenance areas. The permittee shall describe and implement measures that prevent or minimize contamination of the storm water runoff from all areas used for vehicle/equipment maintenance. The permittee shall consider the following measures (or their equivalents): performing maintenance activities indoors; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluids prior to disposal; prohibiting wet clean up practices where the practices would result in the discharge of pollutants to storm water drainage systems; using dry cleanup methods ; treating and/or recycling collected storm water runoff; and minimizing runoff/runoff of storm water to maintenance areas.

(6) Locomotive sanding (loading sand for traction) areas. The plan must describe measures that prevent or minimize contamination of the storm water runoff from areas used for locomotive sanding. The permittee shall consider the following measures (or their equivalents): covering sanding areas; minimizing storm water runoff/runoff; or appropriate sediment removal practices to minimize the off-site transport of sanding material by storm water.

b. Routine facility inspections. The following areas/activities shall be included in all inspections: storage area for vehicles/equipment awaiting maintenance; fueling areas; indoor and outdoor vehicle/equipment maintenance areas; material storage areas; vehicle/equipment cleaning areas; and loading/unloading areas.

c. Employee training. Employee training shall take place, at a minimum, annually (once per calendar year). Employee training must address the following, as applicable : used oil and spent solvent management; fueling procedures; general good housekeeping practices; proper painting procedures; and used battery management.

d. Nonstorm water discharges. For facilities that discharge vehicle and equipment washwaters to the sanitary sewer system, the operator of the sanitary system and associated treatment plant must be notified. In such cases, a copy of the notification letter must be attached to the plan. If an industrial user permit is issued under a pretreatment program, a reference to that permit must be in the plan. In all cases, any permit conditions or pretreatment requirements must be considered in the plan. If the washwaters are handled in another manner (e.g., hauled off-site), the disposal method must be described and all pertinent documentation (e.g., frequency, volume, destination, etc.) must be attached to the plan.

Sector Q - Water transportation.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from water transportation facilities (generally identified by SIC Major Group 44), that have vehicle (vessel) maintenance shops and/or equipment cleaning operations. The water transportation industry includes facilities engaged in foreign or domestic transport of freight or passengers in deep sea or inland waters; marine cargo handling operations; ferry operations; towing and tugboat services; and marinas.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify the locations where any of the following activities may be exposed to precipitation/surface runoff: fueling; engine maintenance/repair; vessel maintenance/repair, pressure washing; painting; sanding; blasting; welding; metal fabrication; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).

b. Summary of potential pollutant sources. The plan shall describe the following additional sources and activities that have potential pollutants associated with them: outdoor manufacturing or processing activities (i.e., welding, metal fabricating); and significant dust or particulate generating processes (e.g., abrasive blasting, sanding, painting).

2. Storm water controls.

a. Good housekeeping.

(1) Pressure washing area. If pressure washing is used to remove marine growth from vessels, the discharge water must be permitted by a separate VPDES permit. The SWPPP must describe: the measures to collect or contain the discharge from the pressure washing area ; the method for the removal of the visible solids ; the methods of disposal of the collected solids; and where the discharge will be released.

(2) Blasting and painting areas. The permittee must describe and implement measures to prevent spent abrasives, paint chips, and overspray from discharging into the receiving water or the storm sewer system. The permittee may consider containing all blasting/painting activities, or the use of other measures to prevent or minimize the discharge of contaminants (e.g., hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). Storm water conveyances shall be regularly cleaned to remove deposits of abrasive blasting debris and paint chips. The plan should include any standard operating practices with regard to blasting and painting activities, such as the prohibition of uncontained blasting/painting over open water, or the prohibition of blasting/painting during windy conditions which can render containment ineffective.

(3) Material storage areas. All containerized materials (fuels, paints, solvents, waste oil, antifreeze, batteries) must be plainly labeled and stored in a protected, secure location away from drains. The permittee must describe and implement measures to prevent or minimize the contamination of precipitation/surface runoff from the storage areas. The plan must specify which materials are stored indoors and consider containment or enclosure for materials that are stored outdoors. The permittee must consider implementing an inventory control plan to limit the presence of potentially hazardous materials on-site. Where abrasive blasting is performed, the plan must specifically include a discussion on the storage and disposal of spent abrasive materials generated at the facility.

(4) Engine maintenance and repair areas. The permittee must describe and implement measures to prevent or minimize contamination of precipitation/surface runoff from all areas used for engine maintenance and repair. The permittee shall consider the following measures (or their equivalent): performing all maintenance activities indoors; maintaining an organized inventory of materials used in the shop; draining all parts of fluids prior to disposal; prohibiting the practice of hosing down the shop floor; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the maintenance area.

(5) Material handling areas. The permittee must describe and implement measures to prevent or minimize contamination of precipitation/surface runoff from material handling operations and areas (e.g., fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). The permittee shall consider the following measures (or their equivalents): covering fueling areas; using spill/overflow protection; mixing paints and solvents in a designated area (preferably indoors or under a shed); and minimizing runoff of storm water to material handling areas.

(6) Drydock activities. The plan must address the routine maintenance and cleaning of the drydock to minimize the potential for pollutants in the storm water runoff. The plan must describe the procedures for cleaning the accessible areas of the drydock prior to flooding and final cleanup after the vessel is removed and the dock is raised. Cleanup procedures for oil, grease, or fuel spills occurring on the drydock must also be included within the plan. The permittee shall consider the following measures (or their equivalents): sweeping rather than hosing off debris/spent blasting material from the accessible areas of the drydock prior to flooding; and having absorbent materials and oil containment booms readily available to contain/cleanup any spills.

(7) General yard area. The plan must include a schedule for routine yard maintenance and cleanup. Scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, packaging, etc., must be routinely removed from the general yard area.

b. Preventative Maintenance. As part of the facility's preventive maintenance program, storm water management devices shall be inspected and maintained in a timely manner (e.g., oil/water separators and sediment traps cleaned to ensure that spent abrasives, paint chips and solids are intercepted and retained prior to entering the storm drainage system). Facility equipment and systems shall also be inspected and tested to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

c. Routine facility inspections. The following areas shall be included in all monthly inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; drydock area; and general yard area.

d. Employee training. Training shall address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; disposal of spent abrasives; disposal of vessel wastewaters; spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

e. Comprehensive site compliance evaluation. The permittee shall conduct regularly scheduled evaluations at least once a year and address those areas contributing to a storm water discharge associated with industrial activity (e.g., pressure washing area, blasting/sanding areas, painting areas, material storage areas, engine maintenance/repair areas, material handling areas, and drydock area). These sources shall be inspected for evidence of, or the potential for, pollutants entering the drainage system.

Sector R - Ship and boat building or repair yards.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities engaged in ship building and repairing and boat building and repairing (SIC Code 373). (According to the U.S. Coast Guard, a vessel 65 feet or greater in length is referred to as a ship and a vessel smaller than 65 feet is a boat.)

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify the locations where any of the following activities may be exposed to precipitation/surface runoff: fueling; engine maintenance/repair; vessel maintenance/repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading/unloading areas; locations used for the treatment, storage or disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).

b. Potential pollutant sources. The plan shall include a description of the following additional sources and activities that have potential pollutants associated with them (if applicable): outdoor manufacturing/processing activities (e.g., welding, metal fabricating); and significant dust/particulate generating processes (e.g., abrasive blasting, sanding, painting).

2. Storm water controls.

a. Good housekeeping measures.

(1) Pressure washing area. If pressure washing is used to remove marine growth from vessels, the discharge water must be permitted as a process wastewater by a separate VPDES permit.

(2) Blasting and painting areas. The permittee must describe and implement measures to prevent spent abrasives, paint chips and overspray from discharging into the receiving waterbody or the storm sewer system. To prevent the discharge of contaminants, the permittee shall consider containing all blasting/painting activities, or using other methods, such as hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris. Where necessary, the plan should include a schedule for regularly cleaning storm systems to remove deposits of abrasive blasting debris and paint chips. The plan should include any standard operating practices with regard to blasting and painting activities, such as the prohibition of uncontained blasting/painting over open water or the prohibition of blasting/painting during windy conditions that can render containment ineffective.

(3) Material storage areas. All containerized materials (fuels, paints, solvents, waste oil, antifreeze, batteries) must be plainly labeled and stored in a protected, secure location away from drains. The permittee must describe and implement measures to prevent or minimize contamination of precipitation/surface runoff from the storage areas. The plan must specify which materials are stored indoors and consider containment or enclosure for materials that are stored outdoors. The permittee must consider implementing an inventory control plan to limit the presence of potentially hazardous materials on-site. Where abrasive blasting is performed, the plan must specifically include a discussion on the storage and disposal of spent abrasive materials generated at the facility.

(4) Engine maintenance and repair areas. The permittee must describe and implement measures to prevent or minimize contamination of precipitation/surface runoff from all areas used for engine maintenance and repair. The permittee shall

consider the following measures (or their equivalent): performing all maintenance activities indoors; maintaining an organized inventory of materials used in the shop; draining all parts of fluids prior to disposal; prohibiting the practice of hosing down the shop floor; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the maintenance area.

(5) Material handling areas. The permittee must describe and implement measures to prevent or minimize contamination of precipitation/surface runoff from material handling operations and areas (e.g., fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). The permittee shall consider the following methods (or their equivalents): covering fueling areas; using spill/overflow protection; mixing paints and solvents in a designated area (preferably indoors or under a shed); and minimizing runoff of storm water to material handling areas.

(6) Drydock activities. The plan must address the routine maintenance and cleaning of the drydock to minimize the potential for pollutants in the storm water runoff. The plan must describe the procedures for cleaning the accessible areas of the drydock prior to flooding and final cleanup after the vessel is removed and the dock is raised. Cleanup procedures for oil, grease, or fuel spills occurring on the drydock must also be included within the plan. The permittee shall consider the following measures (or their equivalents): sweeping rather than hosing off debris/spent blasting material from the accessible areas of the drydock prior to flooding and having absorbent materials and oil containment booms readily available to contain/cleanup any spills.

(7) General yard area. The plan must include a schedule for routine yard maintenance and cleanup. Scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, packaging, etc., must be routinely removed from the general yard area.

b. Preventative maintenance. As part of the facility's preventive maintenance program, storm water management devices shall be inspected and maintained in a timely manner (e.g., oil/water separators and sediment traps cleaned to ensure that spent abrasives, paint chips and solids are intercepted and retained prior to entering the storm drainage system). Facility equipment and systems shall also be inspected and tested to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

c. Routine facility inspections. The following areas shall be included in all monthly inspections: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance/repair areas; material handling areas; drydock area; and general yard area.

d. Employee training. Training shall address, at a minimum, the following activities (as applicable): used oil management; spent solvent management; proper disposal of spent abrasives; proper disposal of vessel wastewaters, spill prevention and control; fueling procedures; general good housekeeping practices; painting and blasting procedures; and used battery management.

e. Comprehensive site compliance evaluation. The permittee shall conduct regularly scheduled evaluations at least once a year and address those areas contributing to a storm water discharge associated with industrial activity (e.g., pressure washing area, blasting/sanding areas, painting areas, material storage areas, engine maintenance/repair areas, material handling areas, and drydock area). These sources shall be inspected for evidence of, or the potential for, pollutants entering the drainage system.

Sector S - Air transportation.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from air transportation facilities including airports, airport terminal services, air transportation (scheduled and nonscheduled), flying fields, air courier services, and establishments engaged in operating and maintaining airports, and servicing, repairing or maintaining aircraft (generally classified under SIC Code 45), which have vehicle maintenance shops, material handling facilities, equipment cleaning operations or airport and/or aircraft deicing/anti-icing operations. For the purpose of this section, the term "deicing" is defined as the process to remove frost, snow, or ice and "anti-icing" is the process which prevents the accumulation of frost, snow, or ice. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing/anti-icing operations are addressed under this section.

B. Storm water pollution prevention plan requirements. SWPPPs developed for areas of the facility occupied by tenants of the airport shall be integrated with the plan for the entire airport. For the purposes of this permit, tenants of the airport facility include airline passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in storm water discharges associated with industrial activity. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following activities may be exposed to precipitation/surface runoff: aircraft and runway deicing/anti-icing operations; fueling stations; aircraft, ground vehicle and equipment maintenance/cleaning areas; and storage areas for aircraft, ground vehicles and equipment awaiting maintenance.

b. Summary of potential pollutant sources. A narrative description of the potential pollutant sources from the following activities: aircraft, runway, ground vehicle and equipment maintenance and cleaning; aircraft and runway deicing/anti-icing operations (including apron and centralized aircraft deicing/anti-icing stations, runways, taxiways and ramps). Facilities which conduct deicing/anti-icing operations shall maintain a record of the types (including the Material Safety Data Sheets

(MSDS)) and monthly quantities of deicing/anti-icing chemicals used, either as measured amounts, or in the absence of metering, as estimated amounts. This includes all deicing/anti-icing chemicals, not just glycols and urea (e.g., potassium acetate). Tenants and fixed-base operators who conduct deicing/anti-icing operations shall provide the above information to the airport authority for inclusion in the storm water pollution prevention plan for the entire facility.

2. Storm water controls.

a. Good housekeeping.

(1) Aircraft, ground vehicle and equipment maintenance areas. The permittee must describe and implement measures that prevent or minimize the contamination of storm water runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangars). The following practices (or their equivalents) shall be considered: performing maintenance activities indoors; maintaining an organized inventory of materials used in the maintenance areas; draining all parts of fluids prior to disposal; preventing the practice of hosing down the apron or hangar floor; using dry cleanup methods; and collecting the storm water runoff from the maintenance area and providing treatment or recycling.

(2) Aircraft, ground vehicle and equipment cleaning areas. Permittees should ensure that cleaning of equipment is conducted in designated areas only and clearly identify these areas on the ground and delineate them on the site map. The permittee must describe and implement measures that prevent or minimize the contamination of the storm water runoff from cleaning areas.

(3) Aircraft, ground vehicle and equipment storage areas. The storage of aircraft, ground vehicles and equipment awaiting maintenance must be confined to designated areas (delineated on the site map). The following BMPs (or their equivalents) shall be considered: indoor storage of aircraft and ground vehicles; the use of drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding storage areas.

(4) Material storage areas. Storage vessels of all materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) must be maintained in good condition, so as to prevent or minimize contamination of storm water, and plainly labeled (e.g., "used oil," "Contaminated Jet A," etc.). The permittee must describe and implement measures that prevent or minimize contamination of precipitation/runoff from storage areas. The following BMPs or their equivalents shall be considered: indoor storage of materials; centralized storage areas for waste materials; and installation of berms/dikes around storage areas.

(5) Airport fuel system and fueling areas. The permittee must describe and implement measures that prevent or minimize the discharge of fuels to the storm sewer/surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. The following BMPs (or their equivalents) shall be considered: implementing spill and overflow practices (e.g., placing absorptive materials beneath aircraft during fueling operations); using dry cleanup methods; and collecting the storm water runoff.

b. Source reduction. Owners who conduct deicing/anti-icing operations shall consider alternatives to the use of urea and glycol-based deicing/anti-icing chemicals to reduce the aggregate amount of deicing/anti-icing chemicals used and/or lessen the environmental impact. Chemical options to replace ethylene glycol, propylene glycol and urea include: potassium acetate; magnesium acetate; calcium acetate; anhydrous sodium acetate.

(1) Runway deicing operations. Owners shall evaluate present application rates to ensure against excessive over application by analyzing application rates and adjusting as necessary, consistent with considerations of flight safety. Also the following BMP options shall be considered (or their equivalents): metered application of chemicals; prewetting dry chemical constituents prior to application; installation of runway ice detection systems; implementing anti-icing operations as a preventive measure against ice buildup.

(2) Aircraft deicing/anti-icing operations. Owners shall determine whether excessive application of deicing/anti-icing chemicals occurs, and adjust as necessary, consistent with considerations of flight safety. This evaluation should be carried out by the personnel most familiar with the particular aircraft and flight operations in question (versus an outside entity such as the airport authority). The use of alternative deicing/anti-icing agents as well as containment measures for all applied chemicals shall be considered. Also, the following BMP options (or their equivalents) shall be considered for reducing deicing fluid use: forced-air deicing systems; computer-controlled fixed-gantry systems; infrared technology; hot water; varying glycol content to air temperature; enclosed-basket deicing trucks; mechanical methods; solar radiation; hangar storage; aircraft covers; and thermal blankets for MD-80s and DC-9s. The use of ice-detection systems and airport traffic flow strategies and departure slot allocation systems shall also be considered.

c. Management of runoff. Where deicing/anti-icing operations occur, owners shall describe and implement a program to control or manage contaminated runoff to reduce the amount of pollutants being discharged from the site. The following BMPs (or their equivalents) shall be considered: establishing a dedicated deicing facility with a runoff collection/recovery system; using vacuum/collection trucks; storing contaminated storm water/deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; collecting contaminated runoff in a wet pond for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); and directing runoff into vegetative swales or other infiltration measures. The plan should consider the recovery of deicing/anti-icing materials when these materials are applied during nonprecipitation events (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of storm water contamination. Used deicing fluid should be recycled whenever possible.

d. Routine facility inspections. The inspection frequency shall be specified in the plan. At a minimum, inspections shall be conducted once per month during deicing/anti-icing season (e.g., October through April for most airports). If deicing occurs before or after this period, the inspections shall be expanded to include all months during which deicing chemicals may be used. Also, if significantly or deleteriously large quantities of deicing chemicals are being spilled or discharged, or if water quality impacts have been reported, the inspection frequency shall be increased to weekly until such time as the chemical spills/discharges or impacts are reduced to acceptable levels.

e. Comprehensive site compliance evaluation. The annual site compliance evaluations shall be conducted by qualified facility personnel during periods of actual deicing operations, if possible. If not practicable during active deicing or if the weather is too inclement, the evaluations shall be conducted when deicing operations are likely to occur and the materials and equipment for deicing are in place.

Sector T - Treatment works.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including lands dedicated to the disposal of sewage sludge that are located within the confines of the facility with a design flow of 1.0 MGD or more, or required to have an approved pretreatment program under 9 VAC 25-31-730 (Industrial Activity Code "TW"). Farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and that are not physically located within the facility, or areas that are in compliance with § 405 of the CWA are not required to have permit coverage.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides and pesticides.

b. Summary of potential pollutant sources. A description of the potential pollutant sources from the following activities, as applicable: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station; and access roads/rail lines.

2. Storm water controls.

a. Best Management Practices (BMPs). In addition to the other BMPs considered, the following BMPs shall be considered: routing storm water to the treatment works; or covering exposed materials (i.e., from the following areas: grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station).

b. Inspections. The following areas shall be included in all inspections: access roads/rail lines, grit, screenings and other solids handling, storage or disposal areas; sludge drying beds; dried sludge piles; compost piles; septage or hauled waste receiving station areas.

c. Employee training. Employee training must, at a minimum, address the following areas when applicable to a facility: petroleum product management; process chemical management; spill prevention and control; fueling procedures; general good housekeeping practices; proper procedures for using fertilizers, herbicides and pesticides.

d. Nonstorm water discharges. For facilities that discharge vehicle and equipment washwaters to the sanitary sewer system, the operator of the sanitary system and associated treatment plant must be notified. In such cases, a copy of the notification letter must be attached to the plan. If an industrial user permit is issued under a pretreatment program, a reference to that permit must be in the plan. These provisions do not apply if the discharger and the operator of the treatment works receiving the discharge are the same. In all cases, any permit conditions must be considered in the plan. If vehicle and equipment washwaters are handled in another manner (e.g., hauled off-site), the disposal method must be described and all pertinent documentation (e.g., frequency, volume, destination, etc.) must be attached to the plan.

Sector U - Food and kindred products.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from food and kindred products processing facilities (commonly identified by SIC Code 20), including: meat products; dairy products; canned, frozen and preserved fruits, vegetables, and food specialties; grain mill products; bakery products; sugar and confectionery products; fats and oils; beverages; and miscellaneous food preparations and kindred products and tobacco products manufacturing (SIC Code 21).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify the locations of the following activities if they are exposed to precipitation/surface runoff: vents/stacks from cooking, drying, and similar operations; dry product vacuum transfer lines; animal holding pens; spoiled product; and broken product container storage areas.

b. Summary of potential pollutant sources. In addition to food and kindred products processing-related industrial activities, the plan must also describe application and storage of pest control chemicals (e.g., rodenticides, insecticides, fungicides, etc.) used on plant grounds.

2. Storm water controls.

a. Routine facility inspections. At a minimum, the following areas, where the potential for exposure to storm water exists, must be inspected: loading and unloading areas for all significant materials; storage areas, including associated containment areas; waste management units; vents and stacks emanating from industrial activities; spoiled product and broken product container holding areas; animal holding pens; staging areas; and air pollution control equipment.

b. Employee training. The employee training program must also address pest control.

Sector V - Textile mills, apparel, and other fabric products.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from textile mills, apparel and other fabric product manufacturing, generally described by SIC 22 and 23. This section also covers facilities engaged in manufacturing finished leather and artificial leather products (SIC 31, except 3111). Facilities in this sector are primarily engaged in the following activities: textile mill products, of and regarding facilities and establishments engaged in the preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage, the manufacturing of broad woven fabrics, narrow woven fabrics, knit fabrics, and carpets and rugs from yarn; processes involved in the dyeing and finishing of fibers, yarn fabrics, and knit apparel; the integrated manufacturing of knit apparel and other finished articles of yarn; the manufacturing of felt goods (wool), lace goods, nonwoven fabrics, miscellaneous textiles, and other apparel products.

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description. Summary of potential pollutant sources. A description of the potential pollutant sources from the following activities: industry-specific significant materials and industrial activities (e.g., backwinding, beaming, bleaching, backing, bonding carbonizing, carding, cut and sew operations, desizing, drawing, dyeing, flocking, fulling, knitting, mercerizing, opening, packing, plying, scouring, slashing, spinning, synthetic-felt processing, textile waste processing, tufting, turning, weaving, web forming, winging, yarn spinning, and yarn texturing).

2. Storm water controls.

a. Good housekeeping measures.

(1) Material storage areas. All containerized materials (fuels, petroleum products, solvents, dyes, etc.) must be clearly labeled and stored in a protected area, away from drains. The permittee must describe and implement measures that prevent or minimize contamination of storm water runoff from such storage areas, and must include a description of the containment area or enclosure for those materials that are stored outdoors. The permittee may consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances. The permittee shall ensure that empty chemical drums/containers are clean (triple-rinsing should be considered) and residuals are not subject to contact with precipitation/runoff. Washwater from these cleanings must be collected and disposed of properly.

(2) Material handling area. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from materials handling operations and areas. The permittee shall consider the following measures (or their equivalents): use of spill/overflow protection; covering fueling areas; and covering and enclosing areas where the transfer of materials may occur. Where applicable, the plan must address the replacement or repair of leaking connections, valves, transfer lines and pipes that may carry chemicals, dyes, or wastewater.

(3) Fueling areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider the following measures (or their equivalents): covering the fueling area; using spill and overflow protection; minimizing runoff of storm water to the fueling areas; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the fueling area.

(4) Aboveground storage tank areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from aboveground storage tank areas, including the associated piping and valves. The permittee shall consider the following measures (or their equivalents): regular cleanup of these areas; preparation of a spill prevention control and countermeasure program; spill and overflow protection; minimizing runoff of storm water from adjacent areas; restricting access to the area; insertion of filters in adjacent catch basins; absorbent booms in unbermed fueling areas; use of dry cleanup methods; and permanently sealing drains within critical areas that may discharge to a storm drain.

b. Routine facility inspections. Inspections shall be conducted at least monthly, and shall include the following activities and areas (at a minimum): transfer and transmission lines; spill prevention; good housekeeping practices; management of process waste products; all structural and nonstructural management practices.

c. Employee training. Employee training must, at a minimum address, the following areas when applicable to a facility: use of reused/recycled waters; solvents management; proper disposal of dyes; proper disposal of petroleum products and spent lubricants; spill prevention and control; fueling procedures; and general good housekeeping practices.

d. Comprehensive Site Compliance Evaluation. Regularly scheduled evaluations shall be conducted at least once a year and address those areas contributing to a storm water discharge associated with industrial activity. Inspections should look for evidence of, or the potential for, pollutants entering the drainage system from the following areas, as appropriate: storage tank areas; waste disposal and storage areas; dumpsters and open containers stored outside; materials storage areas; engine maintenance and repair areas; material handling areas and loading dock areas.

Sector W - Furniture and fixtures.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities involved in the manufacturing of wood kitchen cabinets (generally described by SIC Code 2434), and furniture and fixtures (generally classified under SIC Major Group 25), including: household furniture (SIC 251); office furniture (SIC 252); public buildings and related furniture (SIC 253); partitions, shelving, lockers, and office and store fixtures (SIC 254); and miscellaneous furniture and fixtures (SIC 259).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following item:

Site Map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: material storage areas (including tanks or other vessels used for liquid or waste storage); outdoor material processing areas; areas where wastes are treated, stored or disposed; access roads; and rail spurs.

Sector X - Printing and publishing.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from printing and publishing facilities (generally classified under SIC Major Group 27), and include the following types of facilities: newspaper, periodical, and book publishing and/or printing (SIC Codes 271 through 273); miscellaneous publishing (SIC Code 274); commercial printing (SIC Code 275); manifold business forms, greeting cards, bankbooks, looseleaf binders and book binding and related work (SIC Codes 276 through 278); and service industries for the printing trade (SIC 279).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items:

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: aboveground storage tanks, drums and barrels permanently stored outside.

b. Summary of potential pollutant sources. The plan shall include a description of the following additional sources and activities that have potential pollutants associated with them, as applicable: loading and unloading operations; outdoor storage activities; significant dust or particulate generating processes; and on-site waste disposal practices (e.g., blanket wash). Also, the pollutant or pollutant parameter associated with each pollutant source shall be identified (e.g., oil and grease, scrap metal, etc.).

2. Storm water controls.

a. Good housekeeping measures.

(1) Material storage areas. All containerized materials (skids, pallets, solvents, bulk inks, and hazardous waste, empty drums, portable/mobile containers of plant debris, wood crates, steel racks, fuel oil, etc.) should be properly labeled and stored in a protected area, away from drains. The permittee shall describe and implement measures that prevent or minimize contamination of the storm water runoff from such storage areas and shall include a description of the containment area or enclosure for those materials which are stored outdoors. The permittee may consider an inventory control plan to prevent excessive purchasing of potentially hazardous substances.

(2) Material handling areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from material handling operations and areas (e.g., blanket wash, mixing solvents, loading/unloading materials). The permittee shall consider the following measures (or their equivalents): the use of spill/overflow protection; covering fuel areas; and covering/enclosing areas where the transfer of materials may occur. Where applicable, the plan must address the replacement or repair of leaking connections, valves, transfer lines and pipes that may carry chemicals, or wastewater.

(3) Fueling areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from fueling areas. The permittee shall consider the following measures (or their equivalents): covering the fueling area; using spill and overflow protection; minimizing runoff of storm water to the fueling area; using dry cleanup methods; and treating and/or recycling storm water runoff collected from the fueling areas.

(4) Aboveground storage tank areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from aboveground storage tank areas, including the associated piping and valves.

The permittee shall consider the following measures (or their equivalents): regular cleanup of these areas; preparation of a spill prevention control and countermeasure program; spill and overflow protection; minimizing runoff of storm water from adjacent facilities and properties; restricting access to the area; insertion of filters in adjacent catch basins; absorbent booms in unbermed fueling areas; use of dry cleanup methods; and permanently sealing drains within critical areas that may discharge to a storm drain.

b. Employee training. Employee training must, at a minimum, address the following areas when applicable to a facility: spent solvent management; spill prevention and control; used oil management; fueling procedures; and general good housekeeping practices.

Sector Y - Rubber, miscellaneous plastic products, and miscellaneous manufacturing industries.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from rubber and miscellaneous plastic products manufacturing facilities (SIC Major Group 30) and miscellaneous manufacturing industries, except jewelry, silverware, and plated ware (SIC Major Group 39, except 391).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items:

1. Site description. Summary of potential pollutant sources. The permittee shall review the use of zinc at the facility and the possible pathways through which zinc may be discharged in storm water runoff.

2. Storm water controls. Controls for rubber manufacturers. The permittee shall describe and implement specific controls to minimize the discharge of zinc in storm water discharges from the facility. The following possible sources of zinc shall be reviewed and the accompanying BMPs (or their equivalents) shall be considered in the SWPPP. Also, some general BMP options to consider include: using chemicals that are purchased in pre-weighed, sealed polyethylene bags; storing materials that are in use in sealable containers; ensuring an airspace between the container and the cover to minimize "puffing" losses when the container is opened; and using automatic dispensing and weighing equipment.

a. Inadequate housekeeping. All permittees shall review the handling and storage of zinc bags at their facilities and consider the following BMP options: employee training regarding the handling/storage of zinc bags; indoor storage of zinc bags; cleanup of zinc spills without washing the zinc into the storm drain; and the use of 2,500-pound sacks of zinc rather than 50- to 100-pound sacks.

b. Dumpsters. The following BMPs shall be considered to reduce discharges of zinc from dumpsters: providing a cover for the dumpster; move the dumpster to an indoor location; or provide a lining for the dumpster.

c. Malfunctioning dust collectors or baghouses. Permittees shall review dust collectors/baghouses as possible sources in zinc in storm water runoff. Improperly operating dust collectors/baghouses shall be replaced or repaired as appropriate.

d. Grinding operations. Permittees shall review dust generation from rubber grinding operations at their facility and, as appropriate, install a dust collection system.

e. Zinc stearate coating operations. Permittees shall include in the SWPPP appropriate measures to prevent or clean up drips/spills of zinc stearate slurry that may be released to the storm drain. Alternate compounds to zinc stearate shall also be considered.

Sector Z - Leather tanning and finishing.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from leather tanning, currying and finishing (commonly identified by SIC Code 3111).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: processing and storage areas of the beamhouse, tanyard, retan-wet finishing and dry finishing operations; and haul roads, access roads and rail spurs.

b. Summary of potential pollutant sources. A description of potential pollutant sources including (as appropriate): temporary or permanent storage of fresh and brine cured hides; chemical drums, bags, containers and aboveground tanks; leather dust, scraps, trimmings and shavings; spent solvents; extraneous hide substances and hair; empty chemical containers and bags; floor sweepings/washings; refuse and waste piles and sludge; and significant dust/particulate generating processes (e.g., buffing).

2. Storm water controls.

a. Good housekeeping.

(1) Storage areas for raw, semiprocessed, or finished tannery by-products. Pallets/bales of raw, semiprocessed or finished tannery by-products (e.g., splits, trimmings, shavings, etc.) should be stored indoors or protected by polyethylene wrapping, tarpaulins, roofed storage area or other suitable means. Materials should be placed on an impermeable

surface, the area should be enclosed or bermed or other equivalent measures should be employed to prevent runoff/runoff of storm water.

(2) Material storage areas. Label storage units of all materials (e.g., specific chemicals, hazardous materials, spent solvents, waste materials). Describe and implement measures that prevent or minimize contact with storm water.

(3) Buffing and shaving areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff with leather dust from buffing/shaving areas. The permittee may consider dust collection enclosures, preventive inspection/maintenance programs or other appropriate preventive measures.

(4) Receiving, unloading, and storage areas. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from receiving, unloading, and storage areas. The following measures (or their equivalents) shall be considered for exposed receiving, unloading and storage areas: hides and chemical supplies protected by a suitable cover; diversion of drainage to the process sewer; and grade berming/curbing area to prevent runoff of storm water.

(5) Outdoor storage of contaminated equipment. The permittee must describe and implement measures that prevent or minimize contact of storm water with contaminated equipment. The following measures (or their equivalents) shall be considered: equipment protected by suitable cover; diversion of drainage to the process sewer; thorough cleaning prior to storage.

(6) Waste management. The permittee must describe and implement measures that prevent or minimize contamination of the storm water runoff from waste storage areas. The permittee shall consider the following measures (or their equivalents): inspection/maintenance programs for leaking containers or spills; covering dumpsters; moving waste management activities indoors; covering waste piles with temporary covering material such as tarpaulins or polyethylene; and minimizing storm water runoff by enclosing the area or building berms around the area.

Sector AA - Fabricated metal products.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from the fabricated metals industry listed below, except for electrical related industries: fabricated metal products, except machinery and transportation equipment (SIC Code 34); and jewelry, silverware, and plated ware (SIC Code 391).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items.

1. Site description.

a. Site Map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: raw metal storage areas; finished metal storage areas; scrap disposal collection sites; equipment storage areas; retention and detention basins; temporary/permanent diversion dikes or berms; right-of-way or perimeter diversion devices; sediment traps/barriers; processing areas including outside painting areas; wood preparation; recycling; and raw material storage.

b. Spills and Leaks. When listing significant spills/leaks, the permittee shall pay attention to the following materials, at a minimum: chromium, toluene, pickle liquor, sulfuric acid, zinc and other water priority chemicals and hazardous chemicals and wastes.

c. Summary of potential pollutant sources. A description of the potential pollutant sources from the following activities: loading and unloading operations for paints, chemicals and raw materials; outdoor storage activities for raw materials, paints, empty containers, corn cob, chemicals, scrap metals; outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, brazing, etc.; and on-site waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingots pieces, refuse and waste piles.

2. Storm water controls.

a. Good housekeeping.

(1) Raw steel handling storage. Describe and implement measures controlling or recovering scrap metals, fines, and iron dust, including measures for containing materials within storage handling areas.

(2) Paints and painting equipment. Describe and implement measures to prevent or minimize exposure of paint and painting equipment from exposure to storm water.

b. Spill prevention and response procedures. The permittee shall ensure that the necessary equipment to implement a clean up is available to personnel. The following areas should be addressed :

(1) Metal fabricating areas. Describe and implement measures for maintaining clean, dry, orderly conditions in these areas. Use of dry clean-up techniques should be considered in the plan.

(2) Storage areas for raw metal. Describe and implement measures to keep these areas free of conditions that could cause spills or leakage of materials. The following measures (or their equivalents) should be considered: storage areas maintained such that there is easy access in the event of a spill; stored materials labeled to aid in identifying spill contents.

(3) Receiving, unloading, and storage areas. Describe and implement measures to prevent spills and leaks; plan for quick remedial clean up and instruct employees on clean-up techniques and procedures.

(4) Storage of equipment. Describe and implement measures for preparing equipment for storage and the proper method to store equipment. The following measures (or their equivalents) shall be considered: protecting with covers; storing indoors; and cleaning potential pollutants from equipment to be stored outdoors.

(5) Metal working fluid storage areas. Describe and implement measures for storage of metal working fluids.

(6) Cleaners and rinse water. Describe and implement measures to control/cleanup spills of solvents and other liquid cleaners; control sand buildup and disbursement from sand-blasting operations; and prevent exposure of recyclable wastes. Environmentally benign cleaners should be substituted when possible.

(7) Lubricating oil and hydraulic fluid operations. Consider using devices or monitoring equipment or other devices to detect and control leaks/overflows. Consider the installation of perimeter controls such as dikes, curbs, grass filter strips, or other equivalent measures.

(8) Chemical storage areas. Describe and implement proper storage methods that prevent storm water contamination and accidental spillage. The plan should include a program to inspect containers, and identify proper disposal methods.

c. Inspections. Metal fabricators shall at a minimum include the following areas for inspection: raw metal storage areas; finished product storage areas; material and chemical storage areas; recycling areas; loading and unloading areas; equipment storage areas; paint areas; and vehicle fueling and maintenance areas.

d. Comprehensive site compliance evaluation. The site compliance evaluation shall also include inspections of: areas associated with the storage of raw metals; storage of spent solvents and chemicals; outdoor paint areas; and roof drainage. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel and other related materials.

Sector AB - transportation equipment, industrial, or commercial machinery.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from transportation equipment, industrial or commercial machinery manufacturing facilities (commonly described by SIC Major Group 35 (except SIC Code 357), and SIC Major Group 37 (except SIC Code 373)).

B. Storm water pollution prevention plan requirements. In addition to the requirements of Part III, the SWPPP shall include, at a minimum, the following items:

1. Site description. Site map. The site map shall identify where any of the following may be exposed to precipitation/surface runoff: vents and stacks from metal processing and similar operations.

2. Storm water controls.

Nonstorm water discharges. For facilities that discharge wastewater, other than solely domestic wastewater, to the sanitary sewer system, the permittee must notify the operator of the sanitary sewer and associated treatment works of its discharge. In such cases, a copy of a notification letter must be attached to the plan. Any specific permit conditions must be considered in the plan.

Sector AC - Electronic , electrical equipment and components, photographic and optical goods.

A. Discharges covered under this section. The requirements listed under this section apply to storm water discharges associated with industrial activity from facilities that manufacture: electronic and other electrical equipment and components, except computer equipment (SIC Major Group 36); measuring, analyzing, and controlling instruments; photographic, medical and optical goods; watches and clocks (SIC Major Group 38) and computer and office equipment (SIC Code 357).

B. Storm water pollution prevention plan requirements. There are no SWPPP requirements for this sector in addition to those listed in Part III.

Sector AD - Nonclassified facilities/storm water discharges designated by the board as requiring permits.

A. Discharges covered under this section. Sector AD is used to provide permit coverage for facilities designated by the board as needing a storm water permit, or any discharges of industrial activity that do not meet the description of an industrial activity covered by Sectors A-AC. Therefore, almost any type of storm water discharge could be covered under this sector. Permittees must be assigned to Sector AD by the director and may not choose Sector AD as the sector describing the facility's activities.

B. Storm water pollution prevention plan requirements. There are no SWPPP requirements for this sector in addition to those listed in Part III.